General Bulletin

1991 - 1993



Appalachian
STATE UNIVERSITY

ACADEMIC CALENDAR FOR 1991-92, 1992-1993

Fall Semester, 1991

August 17	Residence halls open for freshmen
August 18	Residence halls open for upperclasses
August 19	Registration/faculty meetings
August 20	Advance drop/add
August 21	First day of classes
August 27	Last day to **add** a class
September 2	Labor Day holiday
September 5	Convocation (classes cancelled from 8:00 AM-12:30 PM)
September 25	Last day to **drop** a class
Oct. 10	
Oct. 13	Fall break
Nov. 28,	
Dec. 1	Thanksgiving holidays
December 6	Last day of classes
December 7	Reading day
December 8	Commencement
Dec. 9-16	Final examinations

Fall Semester, 1992

August 15	Residence halls open for freshmen
August 16	Residence halls open for upperclasses
August 17	Registration/faculty meetings
August 18	Advance drop/add
August 19	First day of classes
August 25	Last day to **add** a class
September 7	Labor Day holiday
September 10	Convocation (classes cancelled from 8:00 AM-12:30 PM)
September 23	Last day to **drop** a class
Oct. 8,	
Oct. 11	Fall break
Nov. 26,	
Nov. 29	Thanksgiving holidays
December 4	Last day of classes
December 5	Reading day
December 6	Commencement
December 7-14	Final examinations

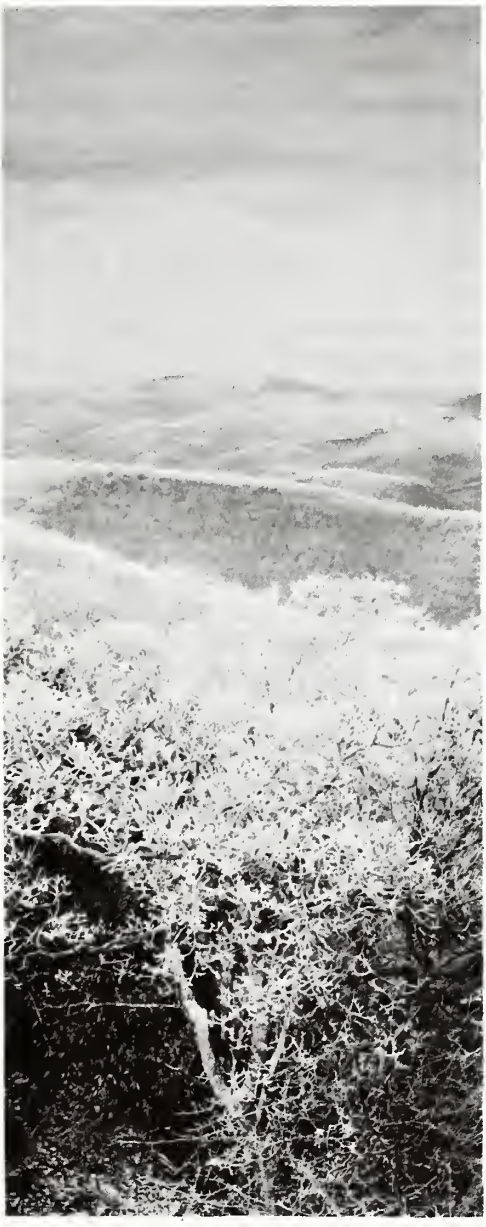
Spring Semester, 1992

January 8	Residence halls open
January 9	Registration/faculty meetings
January 10	Advance drop/add
January 13	First day of classes
January 17	Last day to **add** a class
January 20	Martin Luther King, Jr. holiday
February 17	Last day to **drop** a class
March 7,	
March 15	Spring break
April 17,	
April 20	Easter holidays
May 4	Last day of classes
May 5	Reading day
May 6-13	Final examinations
May 17	Commencement

Spring Semester, 1993

January 6	Residence halls open
January 7	Registration/faculty meetings
January 8	Advance drop/add
January 11	First day of classes
January 15	Last day to **add** a class
January 18	Martin Luther King, Jr. holiday
February 15	Last day to **drop** a class
March 6,	
March 14	Spring break
April 9,	
April 12	Easter holidays
May 3	Last day of classes
May 4	Reading day
May 5-12	Final examinations
May 16	Commencement

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General Bulletin

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Appalachian State University is committed to equality of educational opportunity and does not discriminate against applicants, students or employees based on race, color, national origin, religion, sex, age or handicap. Moreover, Appalachian State University is open to people of all races and actively seeks to promote racial integration by recruiting and enrolling a larger number of black students.

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The Appalachian State University *General Bulletin* is intended for information purposes only and does not constitute a contract between the University and the student. While this catalog presents policies and programs as accurately as possible at the time of publication, the University reserves the right to revise any section or part without notice or obligation.

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The University

Appalachian State University, founded in 1899 as Watauga Academy, is located in Boone, North Carolina, in the heart of the Blue Ridge of the Appalachian mountains, close to the borders of Virginia and Tennessee and less than two hours from the region's major airports and population centers.

Growing steadily through its transformations as Appalachian State Normal School in 1925 to Appalachian State Teachers' College in 1929 to Appalachian State University in 1967 and a part of the consolidated University of North Carolina in 1972, the campus has come to occupy some 48 buildings on its 75-acre main campus as well as several new buildings on the new 180-acre west campus.

Appalachian maintains two campuses away from Boone for experimental studies. The New York Loft, begun in 1974, consists of some 3,000 square feet of carefully designed living space for ten to twelve visitors at a time. Located at 67 Vestry Street in the SoHo district of New York City, the Loft is within easy walking distance of the World Trade Center, Chinatown, Little Italy and all SoHo area galleries.

The Appalachian House, a satellite campus in Washington, D.C., opened in 1977. The 150-year-old house is in the heart of the Capitol Hill Historic District. It is next door to the Folger Shakespeare Library, only minutes away from the U.S. Senate and House chambers, Congressional offices, the Library of Congress, and the Supreme Court. The Appalachian House and Loft, supervised by the associate vice chancellor for academic affairs, are not open to the general public, but are reserved for use by Appalachian faculty, students and staff.

The University welcomes and encourages prospective students, alumni and friends to visit the campus and to tour the surrounding area which encompasses six ski resorts, nine golf courses, and several major tourist attractions.

Mission

Founded in 1899 as Watauga Academy, Appalachian State University evolved into a state teachers college, later broadened its mission to include the liberal arts, gained regional university status, and in 1971 became a part of The University of North Carolina system. From its beginning as a small local institution, Appalachian has developed into a university with an enrollment of over 10,000 students from every section of North Carolina, as well as from other states and nations. Throughout its growth, the University has maintained a strong sense of community. It continues to provide educational leadership and service to the state and region and to foster an understanding of Appalachian culture.

Appalachian State University is a comprehensive university, offering a broad range of undergraduate programs and a wide selection of graduate programs. The University serves a large traditional undergraduate student body in a residential environment. Undergraduates are offered a well-rounded liberal education and the opportunity to pursue a special field of inquiry in preparation for advanced study or a specific career. Graduate

students engage in advanced study and research while developing and extending their academic or professional specializations.

With instruction as its primary mission, the University is committed to excellence in teaching and the fostering of scholarship. As an academic community, it takes pride in its tradition of faculty commitment to students both inside and outside the classroom. Mindful of the relationship between the curricular and extracurricular, Appalachian seeks to promote the intellectual, cultural and personal development of its students.

At Appalachian, scholarship and service are complementary to the instructional mission. The major purposes of scholarship, including research, writing and other creative activities, are threefold: to serve as a basis for instruction, to ensure a vital and intellectually engaged faculty, and to contribute to the advancement of knowledge. Professional and public service is provided in the form of continuing education programs and activities, consultation services, the extension into the community of the professional knowledge and skills of the faculty, staff and students, and the sharing of the University's cultural and recreational activities.

The following educational goals have been adopted for the baccalaureate degree:

1. Breadth of knowledge through the study of the arts, the humanities, mathematics, the natural sciences and the social sciences.
2. Depth of knowledge in at least one area of study.
3. Effective communication skills.
4. An enhanced capacity for logical and creative thinking, analysis, synthesis and evaluation.
5. The ability to apply methods of inquiry.
6. Computational skills and the ability to interpret numerical data.
7. An understanding of the interrelatedness of knowledge.
8. An awareness of the world's diversity of cultural and national experiences, identities and values.
9. An understanding of the issues and problems facing the contemporary world.
10. An understanding of, and respect for, diverse opinions and ideas.
11. An awareness of ethical issues and ethical behavior.
12. A commitment to learning as a lifelong process.

In support of these goals, Appalachian State University will provide:

13. An intellectually and aesthetically stimulating atmosphere throughout the university.
14. An environment that encourages interaction among members of the University community.
15. A variety of learning experiences both within and outside the classroom.
16. Experiences that promote personal growth and development.
17. A environment that fosters a commitment to public responsibility and community service.
18. Opportunities to develop career goals and to prepare for specific careers.

Accreditation

Appalachian State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Bachelor's, Master's and Specialist degrees. In addition to this comprehensive accreditation, other special accreditation by appropriate agencies includes:

The American Assembly of Collegiate Schools of Business (undergraduate and graduate)
The American Chemical Society (undergraduate)
The American Dietetics Association
The American Home Economics Association (undergraduate)
The American Speech-Language and Hearing Association
The Association of University Programs in Health Administration
The Computer Sciences Accreditation Board, Inc.
The Council for the Accreditation of Counseling and Related Education Programs
The National Association of Schools of Music
The National Association for the Education of Young Children
The National Athletic Training Association
The National Council for Accreditation of Teacher Education
The North Carolina Department of Public Instruction

The University is a member of appropriate state and national associations and organizations to which its professional programs are related. These include:

The American Association of Colleges for Teacher Education
The American Association of University Women
The American Council on Education
The Association of Collegiate Schools of Planning
The Association for Gerontology in Higher Education
The Association for Library and Information Sciences Education
The Association for Theatre in Higher Education
The Association of Teacher Educators
The Conference of Southern Graduate Schools
The Council of Colleges of Arts and Sciences
The Council of Graduate Programs in Communication Sciences and Disorders
The Council of Graduate Schools
The Highlands Biological Foundation
The National Association of Business Teacher Education
The National Business Education Association
The National Collegiate Honors Council
The National Community Education Association
The National Council on Rehabilitation Education
The National Film and Video Association
The National Middle School Association
The National Organization on Legal Problems of Education
The North Carolina Association of Colleges and Universities
The North Carolina Association of Colleges for Teacher Education
The North Carolina Association of Community Educators
The North Carolina League of Middle Schools
The North Carolina Theatre Conference
Professional and Organizational Development
South Atlantic States Association for Asian and African Studies
The Southeastern Theatre Conference
The Teacher Education Council of State Colleges and Universities
The U.S. Institute of Theatre Technology

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Corporate History

The University of North Carolina is comprised of all the public institutions of higher education in North Carolina that confer degrees at the baccalaureate level or higher. The University was authorized by the State Constitution in 1776, and it was chartered in 1789 by the General Assembly.

The University of North Carolina opened its doors to students at Chapel Hill in 1795. Thereafter, beginning in the latter part of the nineteenth century, the General Assembly of North Carolina has established and supported fifteen other public senior institutions in keeping with Article IX, Section 8, of the Constitution of North Carolina which provides that the "General Assembly shall maintain a public system of higher education, comprising The University of North Carolina and such other institutions of higher education as the General Assembly may deem wise."

By 1969, The University of North Carolina included six constituent institutions, governed by a single Board of Trustees. This multi-campus University had its beginning in legislation enacted in 1931 that defined The University of North Carolina to include The University of North Carolina at Chapel Hill, North Carolina State University at Raleigh, and The University of North Carolina in Greensboro. In the 1960's three additional campuses were added: The University of North Carolina at Charlotte, The University of North Carolina at Asheville, and The University of North Carolina at Wilmington.

Beginning in 1877, the General Assembly of North Carolina established or acquired ten additional separately governed state-supported senior institutions of higher education They are: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, North Carolina School of the Arts, Pembroke State University, Western Carolina University and Winston-Salem State University. Then, in 1971, the General Assembly redefined The University of North Carolina, and under the terms of that legislation all sixteen public senior institutions became constituent institutions of The University of North Carolina.

The constitutionally authorized Board of Trustees of the six-campus University of North Carolina was designated the Board of Governors and this body is by law The University of North Carolina. The Board of Governors consists of thirty-two members elected by the General Assembly, and it is charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." The chief executive officer of The University is the President.

Each constituent institution officer of The University has its own faculty and student body. The chief administrative officer of each institution is the chancellor, and the chancellors are responsible to the President.

Each constituent institution also has a board of trustees composed of thirteen members: eight elected by the Board of Governors, four appointed by the Governor, and the elected president of the student body *ex officio*. (The School of the Arts has two additional *ex officio* trustees.) The principal powers of these institutional boards are exercised under a delegation of authority from the Board of Governors.

Research Facilities

Faculty research, grant activity, and publication costs are supported through the Cratis D. Williams Graduate School. The Office of Research and Grants in the Graduate School provides assistance to faculty and graduate students in identifying both public and private sources of external funding and in the preparation of grant proposals. The Illinois Research Information System (IRIS), housed in the Office of Research and Grants, is an on-line computerized file containing descriptions of over 3,000 funding opportunities from federal agencies, private and corporate foundations, and other non-profit organizations which can aid faculty and students in identifying potential funding support for research, program development, travel, teaching, and advanced study. In addition, the Office of Research and Grants offers assistance at all stages of proposal development from proposal writing to proposal typing. All submission requirements, including acquiring proper administrative approvals, making all necessary copies for submission, and mailing of proposals, are the responsibility of the Office of Research and Grants.

The Graduate School, with recommendations from the University Research Committee, administers funds which provide modest grants to faculty for research equipment and supplies, publication and travel costs, and manuscript preparation. Research assistance is provided through the allocation of Graduate Research Assistants to departments during the academic year and to individual faculty for research projects in the summer. Access to research library facilities on the Chapel Hill campus is provided by scheduled van service for faculty and graduate students. Information regarding the research activities of Appalachian faculty and students is disseminated through the *Research News* which is published yearly by the Graduate School.

Research facilities maintained by Appalachian include the Carol Grotnes Belk Library and the Office of Computer and Management Services. The W.L. Eury Appalachia Regional collection, provides research as well as instructional support to faculty and students. The Office of Computer and Management Services assists faculty and students in research computing and in Statistical treatment of data. The Faculty Development Fund, administered through the Faculty Development and Instructional Services Center, provides funds for faculty study and professional development. The Office of Grants Accounting assists faculty with the financial administration of grants and contracts.

The College of Arts and Sciences maintains specialized research facilities which include the Appalachian State University Map Library, the Center for Appalachian Studies, the Program for the Study of Environmental Change, the Dark Sky Observatory, the Meteorological Reporting Station, and the Regional Bureau of Government. The Bureau of Economics and Business Research in the Walker College of Business assists faculty and students in research efforts, and the College of Fine and Applied Arts has research facilities and support through the Statistics/Testing/Research Laboratory, the Educational Computer Laboratory, the Teacher Education Student Data Bank, the Speech and Hearing Clinic, the Reading Education Curriculum Laboratory, the Center for Learning Evaluation and Research, the Early Childhood Learning Center, and the Western Carolina Research Center. In addition, Appalachian allocates faculty time and financial support toward the publication of numerous research journals and periodicals.

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Special Service Programs for the Region

In accordance with its mission "to serve the people of the region in which it is located," Appalachian State University sponsors several programs designed to serve the educational, cultural, social, economic and governmental needs of the people and institutions of its region:

Appalachian Consortium

The Appalachian Consortium is a non-profit, educational association whose membership is composed of institutions of higher education and cultural agencies in the Southern Highlands. The purpose of the Appalachian Consortium is to promote among the general public an understanding and appreciation of the culture of the region. The purpose is achieved through the sponsorship of conferences, forums, festivals and workshops with special emphasis on Appalachian traditions and environment. The consortium serves as a vehicle for the development of cooperative projects initiated by regional scholars and teachers at member institutions and agencies. The Appalachian Consortium is supported by public and private grants and member contributions. The Appalachian Consortium Press is a division of the Appalachian Consortium which publishes works dealing with the Southern Highlands.

Center for Management Development

The Center for Management Development is an integral part of the John A. Walker College of Business. Human resource development programs are designed and coordinated to assist individuals, corporations, and public and private institutions. Both Appalachian faculty and outside consultants are used in the facilitation of seminars, conferences, and custom-tailored courses to meet the needs of the business, industry, government, and non-profit sectors in Appalachian's geographic region. Specific programs can be designed for managers and personnel at any organizational level.

Extension Instruction

The Office of Extension Instruction assists university departments in creating and operating off-campus courses leading to graduate degrees, teacher certification, and renewal credit. The office also makes available non-credit instruction for professional development and training.

The Broyhill Inn and Conference Center

The Broyhill Inn and Conference Center brings to the campus adult students from throughout the region as well as hosts professional meetings for state, regional, national and international organizations. Some of the areas of interest include agriculture, medicine, science, business, and law. Special courses are also designed to assist people in their daily lives and vocations. The Broyhill Inn and Conference Center provides not only educational programs but also lodging, dining, meeting facilities, and audio-visual equipment support. Program development specialists and conference coordinators are available to assist in conference design and implementation.

National Center for Developmental Education

The center is the nation's primary resource for information, training and research in the field of developmental education. Each year hundreds of postsecondary educators take advantage of Center services. The center is located within the Reich College of Education.

Developmental education is that aspect of postsecondary education concerned with the learning and human development needs of academically underprepared students.

Bureau of Economic and Business Research

The bureau is sponsored by the John A. Walker College of Business to promote and coordinate faculty research and service activities. Bureau services are available to new or established businesses, industry and government throughout the state, with special attention given to the primary service region of western North Carolina.

Appalachian Regional Bureau of Government

The Bureau's primary goal is to serve local government and law enforcement personnel in the region and beyond enabling them to function more effectively. These services are chiefly in the form of inservice training, technical assistance, research, and information. Educational programs sponsored by the Bureau are in the areas of law enforcement, budgeting, financial and personnel management, planning, tourism, zoning and land use planning, historic preservation, and environmental concerns. Additionally, the Bureau publishes the *Police Law Journal.*

Center for Appalachian Studies

Through development of programs and projects in such areas as the Appalachian region's arts, public policy, and social and cultural issues, the Center for Appalachian Studies assists in the enhancement, clarification, and evaluation of regional concerns. The center also coordinates degree programs in Appalachian Studies.

Mathematics and Science Education Center

The Appalachian Mathematics and Science Education Center is one of ten such centers which are part of the North Carolina Mathematics and Science Education Network. Other centers are located on several University of North Carolina campuses. The mission of the MSEN is to improve the quality and quantity of mathematics and science teachers in the state. Consequently, the center regularly offers courses, workshops, institutes, and conferences, both on campus and at various sites throughout the region for teachers and students preparing to teach.

The center is located in rooms 220, 221 and 222 of Walker Hall and houses a vast array of science and mathematics materials which can be checked out and used not only by Appalachian faculty and area public school teachers, but by students as well. Science and mathematics manipulative kits, journals, video tapes, textbooks, and models are available for use by students enrolled in methods classes or who are student teaching. Appalachian faculty and students are welcome to come in and browse through the center's materials.

Student Life

Center for Student Involvement and Leadership

The Center for Student Involvement and Leadership incorporates all recognized student organizations in its goal of assisting students with their personal and professional development. Programs and services are based on the philosophy that all students must be given the opportunity and responsibility for engaging in activities, programs and services rele-

vant to their personal, educational and professional goals. To this end, the Center promotes personal growth opportunities, leadership development, social development and student accountability through personal counseling and instruction, practicum and experiential learning opportunities.

More than 170 clubs and organizations are officially recognized by the University, involving more than 6,800 undergraduate and graduate students, academic, honor, special interest, fraternities, sororities, religious and service groups sponsor a myriad of activities and are open to all students. Annual club expos introduce students to involvement opportunities.

Leadership development works with campus leaders through the Coordinating Council of Clubs and through the BUILD (Better Understanding Into Leadership Development) program. Officer workshops and training sessions as well as individual sessions on a variety of topics are offered throughout the year.

Minority Student Development works to create a community conducive to the needs of African American students by developing cultural, educational and social programs. The Black Student Association and the BSA Gospel Choir join in programming efforts to give a strong voice to the African-American collegiate community. The Peer Mentoring Program matches incoming freshmen with successful upperclassmen to facilitate the transition from high school to college.

Through participation in the Student Government Association, students may take an active role in University governance. The Student Senate is a recommending body made up of elected representatives from residence halls and off campus constituencies; students accused of violations of University regulations have all those rights guaranteed by the United States Constitution, and they may have an open hearing before the Student Court.

Student Publications provides opportunities to become involved with campus media while developing skills in writing, editing, photography, graphic design and advertising. *The Appalachian*, the University's award-winning twice weekly paper, is distributed free on campus to keep students informed of important campus events. *The Rhododendron* yearbook is a 400 page memory book available to students on a subscription basis.

Freshman Orientation Phase II coincides with the opening of fall semester and is designed to assist freshmen to make a successful transition from high school to college. The three-day program addresses academic issues, student life, and personal opportunities and choices that collegiate life provides.

Student Legal Services is a free advice and referral program provided for students. A licensed attorney is available to discuss individual legal concerns.

Division of Student Programs

Student Programs, a division of Student Development, provides the Appalachian community with a variety of social, cultural, recreational and educational programs and experiences. These co-curricular programs directly enhance and enrich the lives of the students. Planning, promoting, implementing and evaluating student programs provides

involved students with valuable work related skills in managing, leading, organizing, communicating, motivating others, budgeting, advertising, etc. The division seeks to ensure a balanced calendar of programs and activities which are educationally relevant and closely aligned with academic departments. Through internships and management practicums, students supervise support services of the division and gain experience in a variety of career-related positions. Also, the office of Student Programs operates the Student Union, and Legend's Social Center to provide facilities and services for programming, meetings, and the general enhancement of life at Appalachian.

The Appalachian Popular Programs Society (A.P.P.S.), is the all-campus programming organization sponsored and advised by the office of Student Programs. Membership is open to all interested students and provides excellent leadership opportunities. A.P.P.S. has two major goals. One is to enhance both the quantity and quality of campus programming. The second is to provide significant "hands on" learning experiences and leadership opportunities for involved students. The organization is made up of an executive cabinet and the following student-run councils: stage shows, special events, club shows, films and concerts.

The Plemmons Student Union, under the supervision of a full-time manager, is staffed completely by students. It is the central students support facility of campus. There are a number of services and in-house facilities located in the union, including the office of Student Programs. They include the Union Pub, Our House, the Skylight Lounge, Black Student Association Room and various meeting rooms. The Gold Room and the Sweet Shop, two of Appalachian's food services, are located in the union. Other services provided in the Union include the information desk and the sign shop. A billiards room, bowling alley and television lounge are all located in the Union.

Legend's is Appalachian's social and entertainment center located on campus. Under the supervision of a full-time manager, it is staffed by student employees. A wide variety of entertaining programs occur in Legends and are coordinated by the A.P.P.S. councils. Such programs include regional and local bands, national entertainers, theme parties, discos, comedians and movies.

Athletics

As a member of the Southern Conference, and National Collegiate Athletic Association (NCAA), Appalachian offers eight varsity sports for women, and ten varsity sports for men—the largest number of varsity athletic teams of any Southern Conference School.

Men's varsity sports include: football, cross country, soccer, basketball, wrestling, track (indoor and outdoor), tennis, baseball, and golf. Women's varsity sports include field hockey, basketball, volleyball, golf, tennis, cross-country, and track (indoor and out).

Religious Life

Appalachian is a state-owned campus, and as such it has no religious affiliation. Its students, however, promote and support church affiliated organizations which include the Baptist Student Union, Canterbury Association (Episcopal), Jewish Student Club, Lutheran Student Association, Wesley Foundation (Methodist), Westminster Fellowship

(Presbyterian), Inter-Varsity Christian Fellowship Catholic Campus Ministry, Fellowship of Christian Athletes, and Campus Crusade. Nine churches (Advent Christian, Baptist, Catholic, Church of Christ, Episcopal, Lutheran, Presbyterian, Missionary Alliance and United Methodist) are within walking distance of the campus.

University Services

Student Advisement

Appalachian views student advisement as one of its highest responsibilities and priorities. It seeks to provide every student with assistance in identifying academic and career interests, developing a realistic and successful academic program, planning an effective career strategy, and in addressing personal and social areas of concern. Faculty, administrators, and staff are committed to a comprehensive system of advisement that meets the needs of students at each stage of their university education.

Student orientation. Appalachian provides a comprehensive orientation program for all new undergraduate students prior to their initial enrollment. The program utilizes faculty members, staff, and upper-class students in providing information on academic programs, placement testing, advice on course scheduling, university policies and procedures, residence life, financial aid, and co-curricular activities. Information is also provided on goal setting, college survival skills, and adjusting to changes in life styles.

Orientation services are provided in two phases. Phase I is coordinated by the General College and emphasizes academic information, placement testing and course scheduling. It takes place during the summer and prior to each semester. Phase II is coordinated by the Office of Student Development and focuses on co-curricular activities, survival skills, residence life, goal setting, and changing life styles. It takes place at the beginning of fall semester.

Faculty advising service. The General College operates a faculty advising service for students in their first semesters. Faculty representatives from the academic departments and General College staff advisers assist with course scheduling, interpreting university policies, and developing academic majors and career strategies. If the situation warrants, advisers will also refer students to the Career Planning and Employment Office or the Counseling Center for additional assistance. Advising for ALL General College students is mandatory.

College office advising. When students complete 28 semester hours, meet freshman English requirements, and attain at least a 2.00 grade point average they may declare a major. In this case, their academic records are forwarded from the General College to the appropriate degree-granting college (Arts and Sciences, Business, Education, Fine and Applied Arts, and the School of Music). In some cases additional requirements must be met to be formally accepted into a college. Personnel are available in the dean's office of each degree-granting college to answer general questions about university graduation requirements, interpret university policy, and review a student's official record.

Departmental advising. Since advisement policies vary at the upper division level, students who have declared a major should contact their major department for advising information. As the primary source of advisement for the major, the departmental ad-

viser helps students in developing realistic and successful academic programs, exploring career opportunities, and keeping informed about university and departmental policies and activities. When appropriate, departmental advisers refer majors to the Counseling Center or Career Planning and Employment Office for additional assistance; the results of these consultations are normally returned to the departmental adviser to ensure consistent and effective advisement. The departmental adviser also makes certain that the major is registered with the Career Planning and Employment Office before graduation. The Counseling Center and Career Planning and Employment Office work regularly with individual departments in developing effective advisement programs.

Faculty advisement. Faculty members maintain weekly office hours for routine conferences with students. Many faculty will be able to answer general questions about university regulations and requirements, but others will refer students to departmental, college, or university advisers for both general and specialized advisement. When students have personal and social problems, faculty members assist if possible and, if the need is apparent, make necessary referrals to one of the special counseling services on campus.

In order for academic advisement to be constructive and beneficial, it is important that both the student and the university adviser recognize respective responsibilities. The adviser is committed and prepared to provide appropriate, accurate, and timely information at every stage of the student's career. The student, on the other hand, must be willing to accept advisement, realizing that the ultimate responsibility for understanding university regulations and for meeting graduation requirements resides with the student.

Counseling and Psychological Services Center

The Counseling and Psychological Services Center provides confidential individual and group counseling for a variety of developmental and therapeutic concerns. Concerns may range from personal functioning to educational decisions. The center also provides outreach programs to meet such needs as eating disorders, career choice, substance abuse, and stress management. The center also offers an employee assistance program to meet the counseling and referral needs of faculty and staff.

The testing area of the Counseling and Psychological Services Center has the responsibility of organizing and administering individual and group tests for the university community. Available individual tests include personality tests and vocational interest inventories. Information concerning large group tests such as National Teacher Examinations, Miller Analogies Test, CLEP, and university proficiency tests is also available.

Office of Career Planning and Employment

Appalachian operates a comprehensive career planning and employment program for students and alumni. The office provides career counseling, career information, assistance with resume writing, interviewing skills and job search techniques, on-campus recruitment, employer information and a credentials program. In addition, the office also provides a student employment service for students who are seeking part-time employment while attending Appalachian.

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Residence Life/Student Housing

The University has 17 residence halls housing some 4,400 students in a living and learning atmosphere. The quality of residence life is of as much concern to the University as the quality of any academic program.

To insure that quality, some changes have taken place in the residence halls. What used to be stark lobbies are now coeducational lounges. There are specially prepared study areas, seminar rooms and computer rooms in the residence halls so that some of the academic life of the campus can take place in the residential setting.

The halls are staffed and supervised by personnel who are trained to create a friendly atmosphere in which students can enjoy life and feel a part of the University community.

Each room is equipped with basic furniture. Students are expected to supply rugs and other personal furnishings according to individual taste. Linen service is available upon request from the University laundry.

Some appliances are allowed in the student rooms (lamps, small television sets, small refrigerators) but others are not (hot plates, toasters, heat lamps, irons, fans, microwave ovens, and heaters). Popcorn poppers may be used only in kitchen areas. Irons may be used in laundry rooms. Refrigerator rental is available upon request. The *Student Development Handbook* (available at check-in to halls) contains specific regulations and policies which govern residence hall life. All students are responsible for knowing these regulations and conducting themselves accordingly. Any student who is evicted from on-campus housing is not eligible for a refund of room rent.

Housing requirements. The residence halls are closed during vacation and break periods, and no occupancy of rooms is permitted during this time. For those who must remain in Boone during these periods for University business, the director of residence life must be contacted about scheduling possible housing arrangements.

All new, incoming freshmen (having never attended an institution of higher learning) are required to live in university-owned housing with the exception of those students living with parents or guardian, those who are married and maintaining their residence near the University, or veterans eligible for training under Public Law 358, G.I. Bill effective June, 1966. There is currently a maximum number of residence hall spaces available for each freshman class.

All students reserving rooms are subject to an academic year room and board contract. Students who reserve a room for the fall semester are obligated to pay room rent for fall and spring semester as long as they are enrolled. Exceptions are made during the term of the housing agreements for students participating in off-campus field service programs (i.e., internship or student teaching outside of Watauga County), students getting married during the term of the agreement, and students who do not enroll for any coursework for the second (spring) term. A prorated refund will be considered for those students who are married during the semester, provided proof of marriage is supplied.

Continuing students receiving room assignments for fall semester must notify the Office of Residence Life in writing by July 1, if not accepting the assignment, to avoid billing

for a semester's room rent and forfeiture of the confirmation payment. Room reservation deposits are forfeited upon cancellation of assignment after May 1, for new students (including transfers and new freshmen).

The residence life program has qualified student leaders and professional staff who are responsible for creating an environment within our living and learning units that is conductive to and complements the educational process. Each residence hall has a residence student association that works with the staff to provide social, educational, cultural, and recreational programs. There are limitless opportunities for meeting the needs of the resident student through program development and implementation.

Residence hall students not planning to enroll for the spring semester must notify the Office of Residence Life at least two weeks prior to examination week of Fall Semester to avoid being responsible for a semester's room rent. Students must occupy their residence hall rooms by noon of the first day of registration in each semester. Otherwise, the reservation for this space will be cancelled, and the student will remain responsible for a semester's rent. Limited exceptions to these rules appear in the *Student Development Handbook*.

Room reservations. Room reservation forms are mailed to a new student following admittance by the Office of Admissions. Returning students may apply for housing during spring semester for the following year. Former students who have been readmitted may apply for housing directly to the Office of Residence Life. Completed forms should be returned to the Office of Residence Life. The advance deposit is deducted from the room rent charged for the first semester in residence.

Completing an application for housing is no guarantee that an assignment can be made.

"Academic Ineligible Statement". Students with room assignments who are declared academically ineligible at the end of spring semester will have their room assignment cancelled. These students will be notified of this action at the time their assignments are cancelled and given an opportunity to request a refund of their deposit if they do not wish it held for reassignment. Individuals may reapply when when they regain their academic eligibility and will be placed at the end of the waiting list. Students who are on an existing housing waiting list when the notice of academic ineligibility is presented will be removed from the waiting list and be permitted to reapply when eligible.

Mountaineer Apartments. The University provides 90 furnished apartments. Rental information and applications may be obtained at the Office of Residence Life. The apartments are available to upperclass students, with married and single-parent students given a priority in assignment.

University Health Services

Medical services are provided to students by the Mary S. Shook Student Health Services at their location on the second floor of the Student Support Building on Howard Street. When the University is in session there is a registered nurse present twenty-four hours a day. Physicians are present Monday through Friday from eight a.m. to four p.m. **North Carolina law requires that all students have a complete immunization record on file at the health service, regardless of number of hours being undertaken. Those not in compliance will be refused permission to continue class.**

Only full time students actually registered and taking courses are eligible for care at the health service. Some part time students may elect to pay the fee at the cashier's office and be eligible for care. In addition, a current, validated, ID must be presented before each visit.

Persons requiring the services outside of regular out-patient clinic hours, or those needing a type of service not available at the health service may be referred to off-campus physicians or to the Watauga County Hospital. In such cases the student will be expected to assume responsibility for any cost thus engendered.

Contacts with the University health service are confidential. Records are maintained separately from the University records for the use of the health service personnel only, and may only be released on written permission by the student.

The health service does not issue excuses for class absences due to illness. Students who withdraw from the University for reasons of health must receive medical clearance through the medical center before being readmitted. This clearance must present evidence that the condition which necessitated withdrawal has improved and that there is reasonable expectation of the student's ability to participate in university life.

There is no additional charge for most of the services provided at the Mary S. Shook Student Health Services. The health service is funded by a separate fee paid by each full time student.

Summary of Substance Abuse Policy

Appalachian State University recognizes the following as undesirable: the high-risk use of alcohol, the use of illegal and harmful drugs and the misuse of prescription drugs.

Use and abuse of alcohol or other substances can seriously affect one's present and one's future. High-risk choices can lead to significant academic, legal, financial, job performance and relationship problems as well as problems with physical, mental and emotional health. High-risk use of alcohol and other substances is also a factor in injuries and deaths related to accidents, fires and crimes.

As long as one person is involved in high-risk behavior, we are all at risk because problems related to the use of alcohol and other substances affect not only the user, but friends, family, classmates, co-workers and the entire Appalachian community. Everyone should be concerned and involved in promoting a safe University environment.

Students, faculty members, administrators and other employees are responsible, as citizens, for knowing about and complying with the provisions of North Carolina law that make it a crime to possess, sell, deliver, or manufacture those drugs designated collectively as ''controlled substances'' in Article 5, Chapter 90 of the North Carolina General Statutes. Any member of the University community who violates pertinent state or federal law, either within the University community, or in a manner that otherwise affects the academic community, thereby violates University policy. Any employee convicted of any criminal drug statute violation occurring within the University community must notify the appropriate supervisor or management person no later than five (5) calendar days after such conviction. (Any employee who fails to provide notification shall be subject to

disciplinary action up to and including dismissal.) Disciplinary action against an employee convicted of a drug offense within the University community must commence within 30 days after receipt of notice of the conviction.

Penalties will be imposed for violation of the policies of Appalachian State University only in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators and other employees. The penalties that may be imposed range from written warnings with probationary status to expulsion from enrollment and discharge from employment.

Every student, faculty member, administrator and other employee of Appalachian State University is responsible for being familiar with and complying with the terms of the policy on illegal drugs adopted by the Board of Trustees. Copies of the full text of that policy appear in the *Faculty Handbook, Staff Employee Handbook*, and *The Mountaineer Student Handbook*. Copies of the policy and pertinent N.C. General Statutes are on file in the offices of the provost and vice chancellor for academic affairs, vice chancellor for business affairs, vice chancellor for student development, vice chancellor for university advancement, Graduate Studies and Research, Belk Library, Office of Personnel Services, Residence Life, Public Safety and Security, and the Center for Student Involvement and Leadership. Students will find information pertaining to violations of the alcoholic beverages policy in the University judicial code located in *The Mountaineer Student Handbook*. Alcohol related problems for staff are handled under the personal conduct section of the *Staff Employee Handbook*.

University and Community Resources

A wide array of resources may be required to meet the counseling and rehabilitation needs of individuals who have substance abuse problems. These services generally include assessment and referral, social and/or medical detoxification, in-patient treatment, halfway house facilities, out-patient individual and group therapy, after-care programs and self-help groups. Obviously, not all substance abusers are in need of all the services listed; however, the availability of services affords an individual the opportunity to address substance abuse problems adequately and responsibly.

It is important to note that no Appalachian State University office or community/county—(Boone/Watauga) based program provides the full range of treatment options. At present, the following services are available to members of the University community:

Campus-based

1. The Counseling and Psychological Services Center offers limited short-term out-patient therapy and referral information for students.
2. The Appalachian Substance Abuse Education Program, housed in the Wellness Center, offers a confidential network for students providing information and referral services. These services include a resource library and individual and peer education covering all aspects of substance abuse-related issues.
3. The Wellness Center, in conjunction with the Office of Personnel Services, has established an awareness and education program that will inform students and employees of the stipulations of the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Community Act Amendments of 1989 to promote their understanding and increase their knowledge of dangers of workplace drug abuse, address and

identify drug problems in their lives, and offer alternatives.
4. The Employee Assistance Program, located in the Counseling and Psychological Services Center and staffed by two one-quarter time professionals, offers assessment referral, and individual and group out-patient therapy for faculty and staff on a space-available basis.

Community-based
1. The New River Mental Health Center provides assessment, referral, and detox services (Wilkesboro and Cannon Memorial Hospital). It is the portal of entry for state and private in-patient treatment.
2. A few practitioners in the community offers individual out-patient therapy for persons preferring a private practice setting.
3. A variety of local self-help groups are available with each group establishing its own criteria for membership.

Insurance

An often unexpected financial burden is the cost of being treated for illnesses or accidents that require admission to the hospital or a visit to a specialist. All students are urged to carry some sort of health insurance. Many can be accommodated on the plans carried by the parents. Others who do not have this opportunity may contact the Student Health Service (262-3100) concerning the available low-cost basic insurance plan open to students for their own coverage and for coverage of their dependents. Insurance is NOT included in the student fee schedule and must be contracted for separately.

Belk Library

At the center of the campus and of academic life at Appalachian State University is the Carol Grotnes Belk Library, which houses on open stacks more than 500,000 volumes, some 110,000 government documents, and 350,000 units of microfilm. Approximately 4,200 periodical subscriptions are received, including the major titles in the subject fields. The library maintains subscriptions to more than 63 local, national, and foreign newspapers. Attractive areas for general reading are provided on all three levels of the library as well as study areas, lecture rooms, a reserve and periodicals reading room, and a smoking lounge. A 24-hour reading room is provided on the ground level with a separate outside entrance.

Among the special collections are the Music Library, located in Broyhill Music Center, and the W.L. Eury Appalachian Regional Collection, containing materials (books, tapes, picture, artifacts) primarily concerned with the Appalachian region and housed in University Hall.

A major library addition of 52,000 square feet was completed in 1979. At that time, the Curriculum Library, the Young People's Collection, the Film Library, and the Microforms Collection were combined to form the Justice-Query Instructional Materials Center, which is located on the ground floor of Belk Library.

An automated online catalog and circulation system began in August 1988. The computer not only provides information about material contained in the libraries at Ap-

palachian, but provides data on the library collections at UNC-Asheville and Western Carolina University. A van delivery service facilitates the borrowing of materials among the three libraries.

Tours and lectures in the use of the library can be arranged with the reference staff. Locked study carrels are available to graduate students and faculty who are doing research. The reference department will assist with computerized searches of the educational literature for both students and faculty, and interlibrary loan service is provided to obtain materials that are not in Belk Library.

Cultural Activities

A variety of activities are offered throughout the year to enhance the cultural and intellectual environment of Appalachian. The end result of this activity is to increase student and community awareness and appreciation of the arts as a major force in society. There is a cultural event at Appalachian almost every day of the academic year.

Programs administered by the Office of Cultural Affairs

The Performing Arts Series is available by subscription, season ticket or individual ticket. It consists of the Main Series, which presents a variety of dance, theatre, opera, symphony orchestra, and jazz performances in Farthing Auditorium and the Special Series, which presents chamber performances in the Rosen Concert Hall.

The Forum Series is offered without charge to the university community and consists of the Main Forum Series, which presents major speakers throughout the academic year, and the Special Forum Series which assists academic units to provide speakers and workshops to enhance the academic programs.

The Catherine J. Smith Gallery provides art exhibits throughout the year as part of an educational arts program for Appalachian students, the university community and the region. The gallery hosts two national exhibits, the Rosen Outdoor Sculpture Competition and Exhibit, and the Halpert Visual Arts Competition and Exhibit.

An Appalachian Summer is a summer arts festival which has recently included residencies and performances by the North Carolina Symphony Orchestra, the North Carolina Dance Theater, and the Broyhill Chamber Ensemble; theatre performances co-produced by the North Carolina Shakespeare Festival and Charlotte Repertory Theatre; lectures and workshops by the Smithsonian Institution; and visual arts exhibits.

Farthing Auditorium is an 1,800 seat auditorium used as a road house for touring productions and the programs of academic units, student activities and community arts organizations.

Programs presented by the Academic Arts Units

The School of Music presents a number of concerts and recitals by Appalachian faculty and students in Rosen Concert Hall of the Broyhill Music Center. These presentations range from solo recitals to symphony orchestra concerts which are generally free to the public. Special presentations include Ye Olde Madrigal Feaste and the Opera Theatre.

The Department of Theatre and Dance offers both faculty and student productions in Chapell Wilson Hall and I.G. Greer Arena Theatre. During a four year period, the offerings cover a wide range of dramatic literature and styles. The Appalachian Dance Ensemble performs both student and faculty works each year.

The Department of Art maintains an active exhibit program. Several student and faculty exhibits are mounted each year in the Catherine J. Smith Gallery. The department also utilizes a gallery in the student union to exhibit student works.

William C. Hubbard Center for Faculty Development and Instructional Services

The Hubbard Center provides professional and personal support to faculty through three interrelated areas: faculty and academic development, instructional communications, and media services.

Faculty and academic development assists faculty in designing and redesigning courses, experimenting with new instructional materials and techniques, developing curricular and interdisciplinary projects, and analyzing teaching for improvement. Faculty and academic development also sponsors faculty exchanges, workshops, and seminars.

Instructional communications develops and experiments with various communication applications including microcomputers, slide shows, video and television production, video transmissions via AppalNet, interactive video, and videodiscs. Instructional communications also uplinks and downlinks teleconferences to and from campus via computer-operated satellite dishes.

Media Services assists faculty with the conception, design, and production of instructional projects involving media such as photography, graphics, desktop publishing, and photocopying. Media Services also lends to faculty and students a variety of audio-visual equipment including movie projectors, overhead projectors, tape recorders, video cassette recorders, and cameras.

Postal and Banking Services

A United States Post Office Contract Station is maintained by Appalachian in the Student Support Building. A mailbox is provided for every student. The student's university mailbox address is used by the University for communicating with each student. For this reason, students are responsible for checking their university mailboxes frequently.

Convenient banking services are located in the lobby of the University Bookstore.

Laundry Service

A laundry plant is operated on the campus for use by students, faculty, and staff. It provides all the services of a commercial laundry/dry cleaning plant. Cash and carry service is available to off-campus as well as resident students. The University Laundry accepts the Appalachian Express Account. Washers and dryers are provided in all residence halls.

Security and Traffic

The University Public Safety and Security Department provides services of security and police nature for the campus. The department also supervises traffic control and parking systems.

Everyone who operates a motor vehicle on campus must register it with the University's traffic office.

Several types of registration are available dependent upon the category and/or resident location of the registrant.

Those eligible to drive on campus apply for parking privileges on registration day as a part of academic registration. Any student who must operate a vehicle on campus after registration day, no matter how short the period, must register the vehicle at the traffic office before it is driven on campus.

A fee is charged for automobile registration as set by the University's Board of Trustees and published annually in the parking and traffic regulations pamphlet.

Identification Center

Electronically encoded Identification Cards are issued from the Identification Center in Trivette hall to all students upon their arrival on campus. The cards provide access to campus events and fee-supported services including the use of the library, admittance to intercollegiate athletic events, use of the infirmary, the physical education facilities and Quinn Recreation Center.

In addition to the official identification function of the card, it also manages two separate debit accounts—the **MEAL ACCOUNT** and the **APPALACHIAN EXPRESS ACCOUNT**.

The EXPRESS ACCOUNT is optional and provides for the use of the card to pay for services at the University Bookstore, University Laundry, the Markets, Student Union Ticket Office, and the Athletic Ticket Office, as well as for meals on campus and at the Broyhill Inn. This is a non-refundable account. All residence hall students are also required to have a MEAL ACCOUNT.

Food Services

Appalachian owns and operates its own food service in five separate campus facilities: the University Cafeteria; the Food Court, featuring a variety of shops; the Gold Room, for steak and seafood dining; the Sweet Shop; and Park Place Cafe in Trivette Hall specializing in Italian cuisine. All resident students are required to select a meal option each semester as a part of the room and board contract. Publicized options represent minimum requirement levels. Since food services pricing is a la carte, the level of participation by a student will determine the selection of the most appropriate option. Any balance in the meal option from Fall semester carries over to Spring Semester. Any balance remaining at the end of Spring Semester does **not** carry over into another term. The

meal account is non-refundable. The pre-paid meal option is managed by the student through the computerized I.D. card system.

University Bookstore

The University Bookstore, conveniently located on campus, offers a complete line of student and personal supplies and services, including the administration of a textbook rental plan. The bookstore is owned by the Appalachian Endowment Fund. Profits generated by store operations help provide scholarships and financial aid for qualified students. The University Bookstore accepts the Appalachian Express Account. The Scholars Bookshop provides a wide selection of general reading materials and required paperback books.

Writing Center

The University Writing Center offers its services to all members of the University community. The Center's staff is specially trained to help in the completion of virtually any academic writing projects and in the solution of most writing problems. Users of the center should make appointments for its services or may drop in to see if one of the staff is available. The center is conveniently located in Sanford 203B. Its telephone number is 262-3144.

English Computer Center

The Department of English provides writers access to AT&T 6300 and IBM PC compatible microcomputers, Commodore 64 microcomputers, dot matrix and daisy wheel printers. In addition, the center will offer students assistance in using various word processing programs and other software packages.

Office of Computer and Management Services

The Office of Computer and Management Services currently operates a Digital Equipment Corporation computer cluster, including a VAX 8650 with 192 megabytes of main memory and a VAX 8550 with 112 megabytes of main memory. The cluster executes 12 million instructions per second, shares 10.5 billion characters of direct access storage space, two 1200 LPM printers, and three tape drives with recording densities of 1600/6250 bytes per inch and transfer speed of 780,000 bytes per second. The system supports 413 communications ports.

The office provides both administrative and academic computing support for the University and the region. The center is operated on an attended basis from 8 a.m. to 12 midnight weekdays, from 4 p.m. to 6 p.m. on Saturdays and from 4 p.m. to 9 p.m. on Sundays. The cluster is unavailable from 6 p.m. to 9 p.m. on Saturday. All other hours are on an unattended basis for student and faculty use.

The telecommunications section provides operational and consulting support for the APPALNET broadband coaxial cable data network which connects all campus buildings to all computing facilities. A Microcomputer Training Center provides training, trouble shooting services and consultation on office automation to administrative offices. Elec-

tronic equipment maintenance, excluding video components, is also supported by this office.

Academic Computing Services

Academic Computing Services provides computing applications support to enable all Appalachian State University faculty, students and staff to become proficient in the usage of one or more computers. The ultimate goal of Academic Computing Services is for each user to become self-sufficient in accomplishing all computing tasks. Services and user support provided by Academic Computing Services fall into the following general categories:

I. Information/documentation services
   A. Technical reference information
   B. User's guides for supported software
   C. Newsletter and update announcements

II. Consulting/training services
   A. Mainframe/programming consultation
   B. Statistical/research consultation
   C. Microcomputer (hardware and software) consultation

III. Public user sites
   A. In classroom buildings
   B. In residence halls

IV. Individual purchase support services

Comprehensive Clinic

The Appalachian Comprehensive Clinic provides diagnostic and remedial/therapeutic services in the areas of audiology, counseling, special education, speech and language pathology, and reading. Counseling services are for children and families. Special education services are for preschool and school-aged children. All other services are available to persons of all ages in the region. The clinic also functions as a laboratory for students in the communication disorders and teacher education programs. There is presently no charge to Appalachian students for these services. The clinic office is located in room 118 of Edwin Duncan. For more information, call 262-2185.

Admissions, Expenses, Financial Aid

Appalachian seeks to admit students who are capable of mature, college-level work. As a state-supported institution, the University recognizes its obligation to provide educational opportunities to those who will benefit from them. Consideration of classroom space places a restriction on the number of students who can be admitted to the University. For this reason, students are requested to apply as soon as possible after September 1 of the year preceding enrollment.

Appalachian admits students at the beginning of the fall, spring and summer terms. Any person who wishes to enter the University as either an undergraduate or non-degree student should contact the Office of Admissions, Appalachian State University, Boone, NC

28608, for full information and application forms. A $15.00 application fee must be submitted with the application. This fee is neither deductible from the first semester's fees nor is it refundable.

Freshman students

Applicants will be considered for admission to the freshman class upon meeting the requirements specified below. Those students who have demonstrated the greatest probability of success will be given priority in the selection of the freshman class. Requirements are as follows:

1. Graduation from an accredited secondary school. (If the applicant has not graduated, an equivalency certificate is required.)
2. Presentation of a satisfactory combination of secondary school grades, rank and Scholastic Aptitude Test (SAT) or American College Testing Program (ACT) score. Neither high school grade-point average, class rank, nor test score has an absolute minimum—it is the combination of factors that is pertinent.
3. Presentation of appropriate high school coursework as specified in the minimum admission requirements of the University of North Carolina (see below).
4. Presentation of a satisfactory health record—submitted after academic approval.

Minimum admissions requirements at the 16 institutions of the University of North Carolina

For the class of 1990 and beyond, the following courses will be required for admission, in addition to an institution's own specific requirements:

- In **English**, four course units emphasizing grammar, composition and literature;
- In **mathematics**, three course units including **Algebra I, Algebra II, and geometry**, or a higher level mathematics course for which Algebra II is a prerequisite;
- In **science**, three course units including:
  - at least one unit in a life or **biological science** (for example, biology);
  - at least one unit in a **physical science** (for example, physical science, chemistry, physics); and
  - at least one **laboratory course**; and
- In **social studies**, two course units including one unit in **U.S. history**, but an applicant who does not have the unit in U.S. history may be admitted on the condition that at least three semester hours in that subject will be passed by the end of the sophomore year.

In addition, it is recommended that prospective students complete at least two course units in one foreign language, and take one foreign language course unit and one mathematics course unit in the twelfth grade.

Transfer students

1. Students seeking to transfer from other collegiate institutions must furnish an official transcript from high school as well as each collegiate institution attended. All college transcripts must indicate a cumulative 2.0 (''C'') average on all transferable work attempted prior to entering Appalachian. (The repeat rule is not used in com-

puting the cumulative grade point average on transfer course work.) Courses satisfactorily completed in other accredited institutions are evaluated in terms of the curriculum selected at Appalachian.

2. Equivalent courses with "D" grades may transfer to satisfy course requirements, but credit hours will not count toward graduation. If an Appalachian department requires a grade of at least "C" in a course, the course cannot be transferred. Students must pass a proficiency test in English composition or mathematics in order to receive general education credit.
3. Transfer applicants must be immediately eligible to return to the last institution attended.
4. Each transfer applicant must submit a satisfactory health record after academic approval has been received by applicant.

(Because of differing admission requirements, transfer applicants who are candidates for teacher certification degrees should refer to the admission requirements stipulated by the College of Education. Those transfer applicants seeking degrees in business should refer to the admission requirements for the College of Business.)

NOTE: Prospective students who have attended an accredited college but who have earned less than 28 semester hours of transferable credit must meet both freshman and transfer admission requirements. This means that in addition to fllowing procedures for freshman, they must present a transcript showing an overall 2.00 average on all transferable college work.

Non-degree students

(not applicable to freshmen or transfer candidates)

Applicants who have a satisfactory record of experience and education may be admitted to courses though they do not plan to pursue a degree. Non-degree students are admitted for one term only (space permitting), and must be re-admitted at the beginning of each subsequent term. An individual who has been denied admission as a degree-seeking student may not enroll as a non-degree student.

Such applicants may be required to present evidence of having earned a college degree or evidence of the need for specific courses. Applicants who are regularly enrolled students at other institutions may be admitted as "visiting" students provided the appropriate official at their institution authorizes their attendance at Appalachian, approves the course work selected, indicates the individual is in good standing at that institution, and otherwise approves the transfer of credits taken at Appalachian back to that institution for degree purposes. At the end of one term's work, visiting students must transfer to Appalachian or withdraw from the University.

Non-degree students who desire to become candidates for a degree from Appalachian must meet appropriate admission requirements. Course work taken at Appalachian under "non-degree student status" will not be used to satisfy the necessary admission requirements.

Four-year policy

Appalachian has adopted an admission policy for adults who may or may not meet the University's usual admission requirements. The policy states that an individual may be admitted without penalty for secondary or collegiate work taken four years prior to enrollment. The policy has two pertinent stipulations. First, in the event the applicant did not finish secondary school, yet **could have** graduated at least four years ago and prior to 1988, she/he would be required to successfully complete the high school equivalency examination. (Any student who could have graduated from high school after 1987 must meet the Minimum Admission Requirements.) Second, students with prior collegiate work would receive credit toward graduation in a manner consistent with the University's normal transfer policy.

Former Appalachian students who are ineligible to return under normal academic policy may do so under this policy if four years have elapsed since the term of their last enrollment at Appalachian. The four-year policy will permit the student's former grade-point average to be removed thereby allowing the student, upon returning, to begin a new grade-point average. Former Appalachian students who are academically eligible to return also have the option of this policy. Students returning to the University under the four-year policy must complete a minimum of one year in residency (30 semester hours) beyond the date of their readmission. The application procedure under this policy is the same as that indicated for either a freshman or transfer.

Graduate students

For admission and graduation requirements, see the catalog for the Cratis D. Williams Graduate School.

Auditors

Students enrolled at the University or students admitted with satisfactory records of experience and education may enroll for specific courses as auditors.

Students who audit courses must register in the registrar's office, pay regular fees, be regular in attendance, but will not receive grades or credit.

Advanced placement program/college level examination program

Appalachian participates in the advanced placement program and the college level examination program of the College Entrance Examination Board. Students who have demonstrated their achievement on specific advanced placement tests or college level examination program—subject exams only—may have the results submitted to the University for consideration with regard to placement in advanced courses and for college credit. All students are encouraged to take these tests, and may also qualify for advanced placement and credit by taking departmental tests in their areas of extensive specialization. Based upon these test results, the amount and nature of the credit granted is determined by the committee on academic policies and procedures and the pertinent department of instruction.

Test scores submitted from testing programs such as the advanced placement program, college level examination program, and Defense Activity for Non-Traditional Education Support will remain valid for only ten years.

Readmission

Students who have withdrawn in good standing from the University or who have been suspended for academic deficiencies or for other reasons should submit their requests for readmission to the dean of the college in which they are to be enrolled. Consideration of requests for readmission of students who have been suspended for any reason will be made in light of the applicant's ability, evidence of growth and maturity, good citizenship record, credits earned at another institution, and time elapsed since leaving Appalachian.

International student admission

A student wishing to apply for undergraduate admission as an international student should first make arrangements through the American consulate in his/her own country to take the Test of English as a Foreign Language (TOEFL Test) or the Scholastic Aptitude Test (SAT). No student can be approved (even if he/she meets other requirements) until a satisfactory score is received.

Funds for financial assistance to international students are limited. Therefore, following a student's acceptance, he/she must complete an affidavit of support (Form I-134) in order to show sufficient financial resources before a Form I-20 may be issued. All international students must register with the international student advisor upon their arrival on the campus.

International students are considered out-of-state students and must pay tuition and fees based upon out-of-state rates.

Expenses

Fees are charged by the semester and are due and payable in advance at the beginning of each semester in accordance with payment instructions issued prior to each semester.

The fees payable each semester, as anticipated at the time of publication of this catalog, are listed below. With the approval of its governing bodies, the University reserves the right to make changes in these fees when circumstances require.

Semester tuition and fees (actual rates 1990-91)

Charges include tuition and fees applied to student welfare and activities, registration, other included fees and, for undergraduate students only, textbook rental.

	In-state	Out-of-state
Undergraduate students	$628.00	$2,893.75
Graduate students	595.00	2,560.75

Semester subsistence charges. The basic subsistence charge for students residing on-campus, as shown, includes room (with telephone) and standard meal option. All students are offered an optional meal plan. Upperclass students are offered an optional reduced meal plan.

Basic subsistence charge
$1,150.00 (est. 1991-92)

The application for admission must be accompanied by an application fee of $15.00 which is not deductible nor refundable.

An advance deposit of $100.00 to be applied against the student's tuition and fees must be remitted by each applicant for admission within three weeks of the mailing by the University of the notice of acceptance. Failure to remit within this prescribed period will constitute withdrawal of application. If the applicant, after remitting the deposit, decides not to attend the institution and gives notice of this decision by May 1 in the case of application for the fall term or at least one month prior to the term in the case of application for the spring term, the deposit shall be refunded. A room reservation deposit of $100.00 for students entering Appalachian for the first time must accompany the application for a room reservation. The room reservation deposit is deductible from the room rent charge at the opening of the first semester of residence. Room reservation deposits for the fall semester are refundable upon notification on or prior to May 1. Requests for refunds of the $100 deposits should be addressed to the director of admissions. Returning students are required to pay one-half of the fall semester's room rent within twenty-one days of being assigned. Failure to confirm this assignment will result in cancellation of a room. Those students assigned during spring semester have until May 1 to request refunds. Those assigned after May 1 may request refunds prior to July 1. Failure to meet these deadlines will result in forfeiture of this payment. Current students should request, in writing, refunds from the director of residence life.

Part-time students.

1990-91
Undergraduate

Hours	0-5	6-7	8	9-11	12 & over
In-state	$ 70.25	$ 140.50	$ 487.75	$ 557.75	$ 628.00
Out-of-state	$636.50	$1,273.75	$1,621.00	$2,257.50	$2,893.75

1990-91
Graduate

Hours	0-2	3-5	6-7	8	9 & over
In-state	$ 70.25	$ 140.50	$ 210.50	$ 524.75	$ 595.00
Out-of-state	$636.50	$1,273.75	$1,910.25	$2,224.50	$2,860.75

Part-time students, registered for no less than six hours, may participate in student activities and use student facilities by paying the appropriate fee in the controller's office. Part-time students, registered for less than six hours, may be considered on an individual basis for eligibility to purchase these services.

Field-based students. Students enrolling in an off-campus course conducted by the office of extension instruction pay the following charges per semester hour:

In-state	$65.00
Out-of-state	$80.00

(Tuition may vary depending on the number of students enrolled.)

Residence classification for tuition purposes

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following.

Residence. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus, there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months legal residence means more than simple abode in North Carolina. In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to "maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education." The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residentiary information.

Initiative. Being classified a resident for tuition purposes is contingent on the student's seeking such status and providing all information that the institution may require in making the determination.

Parents' domicile. If an individual, irrespective of age, has living parent(s) or court-appointed guardian of the person, the domicile of such parent(s) or guardian is, prima facie, the domicile of the individual; but this prima facie evidence of the individual's domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed prima facie evidence of the applicant child's status if the applicant has lived (though not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.

Effect of marriage. Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance insure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one's spouse are, however, relevant information in determining residentiary intent. Furthermore, if both a husband and his wife are legal residents of North Carolina and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-month requirement for in-state tuition status.

Military personnel. A North Carolinian who serves outside the state in the armed forces does not lose North Carolina domicile simply by reason of such service. And students from the military may prove retention or establishment of residence by reference, as in other cases, to residentiary acts accompanied by residentiary intent.

In addition, a separate North Carolina statute affords tuition rate benefits to certain military personnel and their dependents even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed in and concurrently living in North Carolina, may be charged a tuition rate lower than the out-of-state tuition rate to the extent that the total of entitlements for applicable tuition costs available from the federal government, plus certain amounts based under a statutory formula upon the in-state tuition rate, is a sum less than the out-of-state tuition rate for the pertinent enrollment. A dependent relative of a service member stationed in North Carolina is eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met; these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary.

Grace period. If a person (1) has been a bona fide legal resident, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state tuition rate for a grace period of twelve months measured from the date on which North Carolina legal residence was lost. If the twelve months ends during an academic term for which the person is enrolled at a State institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence marking the beginning of the grace period.

Minors. Minors (persons under 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person's degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina" and (2) "begins enrollment at an institution of higher education not later than the fall academic term next following completion of education prerequisite to admission at such institution."

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least twelve months duration. This provision acts to confer in-state tuition status even

in the face of other provisions of law to the contrary; however, a person deemed a resident of twelve months duration pursuant to this provision continues to be a legal resident of the State only so long as he or she does not abandon North Carolina domicile.

Lost but regained domicile. If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a 12-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual twelve-month durational requirement. However, any one person may receive the benefit of the provision only once.

Change of status. A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

Transfer students. When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence status classification for tuition purposes.

University regulations concerning the classification of students by residence, for purposes of applicable tuition differentials, are set forth in detail in *A Manual to Assist The Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes.* Each enrolled student is responsible for knowing the contents of this manual, which is the controlling administrative statement of policy on the subject. Copies of the manual are available for review on request at the reference desk in Belk Library.

Student welfare and activities

Student fees support such services and activities as health care, student government, concerts, popular programs, forensics, dramatics, intramurals, student publications, attendance at all athletic events on campus, and transcript fees.

Rental of textbooks

Undergraduate student fees include textbook rental entitling students to receive all hardback textbooks used in each course for which they register. Notebooks, workbooks, manuals, paperbacks, and the like are not included. These and other supplementary materials will be purchased by the student. At the end of each semester, textbooks that are not needed further must be returned. A student who desires to buy the textbooks may purchase them at a reduced price. Graduate students purchase their textbooks. All textbooks are purchased in summer school.

Other fees

Late payment of tuition and fees $20.00

Administrative withdrawal charge $20.00

Music: applied music courses ..... $18.00 per credit hour
(The maximum music fee per student is $36.00 per semester)

Physical education activity
Bowling per course $8.00
Skiing, ice skating and, from time to time, other class offerings use privately owned off-campus facilities. A charge is made by these facilities.

Student teaching and internships per semester hour $3.00

Orientation fee $45.00

Late orientation tests (each) $5.00

Returned check charge (each check) $10.00

Examinations:
The Counseling and Psychological Services Center administers the National Teacher Examinations, Miller Analogies Test, Graduate Record Examination, Graduate Management Admission Test, Law School Admission Test, and other examinations charging fees, when applicable, in accordance with the schedule of fees maintained in the center.

Special note

Before taking final examinations at the close of each semester, a student is expected to settle all accounts. A student may not register for a new semester until all charges have been settled and until all textbooks are returned to the University Bookstore. A student cannot receive a degree, certificate, or transcript of credits if any account or loan is delinquent.

Withdrawal

If a student formally withdraws from the University, a refund will be made in accordance with the following schedule:

Before close of the registration period:
60 percent of tuition, fees, and room rent.

Within two weeks after close of registration period:
40 percent of tuition, fees, and room rent.

Within four weeks after close of registration period:
20 percent of tuition, fees, and room rent.

Withdrawal at any time will entitle the student to a refund for unused food plan credits and Express Card credits.

Refund calculation will be based upon the date of official withdrawal from the University.

Students who have prepaid tuition and fees but who have not completed registration for classes will be due a full refund if they have been determined to be academically ineligible to complete registration. Students not completing registration for other reasons will be due a full refund less any advance deposits made toward tuition, fees, and housing. Students who are suspended for disciplinary reasons or who do not formally withdraw are not eligible for a refund of tuition and fees. Students evicted from University residence facilities or who do not officially withdraw will not be eligible for a refund of unused portion of room and board.

Students receiving financial assistance will have their refund pro-rated as to the percentage of assistance from each program.

Reduction in academic load

If full-time students reduce their academic loads to part-time before close of the registration period or if part-time students reduce their academic loads before close of the registration period, 100 percent of the difference between tuition for the original and revised academic loads will be refunded upon application.

Student Financial Aid

To apply for the academic scholarship and other financial aid administered by the University, an applicant must file the appropriate financial aid application and a Financial Aid Form (FAF) to the College Scholarship Service. This form may be obtained at one's high school or from the financial aid office at any post-secondary educational institution. A student wishing to be considered only for an academic award would need to submit only the Academic Scholarship Application. To ensure full consideration, a student must have these forms on file in the Financial Aid Office by March 15th. The need analysis (FAF) should be filed by this date in order that Appalachian may receive the results as soon as possible. Late applications will be evaluated if there are available funds. The Appalachian form will be mailed to those students who request this application from the Financial Aid Office.

In addition to academic scholarships, the University has grants, loans, and work opportunities for which a student may apply. Many of these programs are briefly described on the following pages.

All undergraduate students applying for any of the need-based financial aid programs must file for the Pell Grant. This is accomplished by checking "yes" to the appropriate item on the need analysis form (FAF).

Information to Veterans, Dependents of Disabled or Deceased Veterans, Members of National Guard/Reserves

The University is approved for training of veterans/dependents of deceased or disabled veterans under the following programs administered by the Department of Veterans Affairs:

Montgomery GI Bill-Active Duty Educational Assistance (Chapter 30)
Montgomery GI Bill-Selective Reserve Educational Assistance Program (Chapter 106)
Post-Vietnam Era Veterans' Educational Assistance Program (Chapter 32)
Survivors' and Dependents' Educational Assistance Program (Chapter 35)
Restored Entitlement Program for Survivors (REPS)
Vocational Rehabilitation (Chapter 31)

Persons eligible to receive these benefits must process an application and enrollment data sheet with the VA Certifying Official, Financial Aid Office. VA Education Benefits are not payable for some courses for instruction, i.e., internship, independent study, individual study. Contact the VA Certifying Official to determine if benefits are payable for these courses.

Children of disabled or deceased veterans may be eligible for a scholarship which pays tuition, some fees, room, and meals from the North Carolina Division of Veterans' Affairs, Raleigh, North Carolina. Applications may be obtained from a local veterans service officer.

Members of the North Carolina National Guard may be eligible for tuition assistance. National Guard Members should contact her or his unit to obtain an application.

Additional information regarding VA related benefits may be obtained by contacting the VA Certifying Official, Financial Aid Office, Appalachian State University, Boone, North Carolina 28608, (704) 262-2190.

Student Employment Programs

Student employment programs are maintained to help students pay university expenses while attending classes full time. Students participating in the programs are employed in administrative offices, in colleges and academic departments, and in service facilities such as the bookstore, the library, and the food service areas.

The student employment programs consist of the student temporary work program and the College Work-Study Program.

Off-campus job information is provided by the Job Location and Development service located in the Office of Career Planning and Employment in I.G. Greer Hall. The function of this office is to find off-campus jobs for enrolled students.

Generally, students may work up to 20 hours per week in university-operated work programs. Work schedules will be arranged by the student and work supervisor with the understanding that class schedules have first priority.

Student Loan Programs

Detailed information concerning student loan programs may be obtained from high school counselors or from the student financial aid office staff. Available loan programs are as follows:

- Perkins Student Loan Program
- Stafford Student Loan (SSL)
- Supplemental Loan for Students (SLS)
- Parent Loan for Undergraduate Students (PLUS)
- The NC Prospective Teacher Scholarship Loan Fund

Emergency Student Loan Fund

These funds are used to assist students with short term emergency cash flow situations that relate to educational or personal living situations. Repayment is usually due within one month after disbursement and cannot be extended beyond the semester in which it is borrowed. No emergency loans are processed during the week of registration.

Grants in Aid and Special Talent Awards

In recognition of students with special talents, the University provides grants in fields of activity such as dramatics, art, forensics, industrial arts, music, and athletics. In addition, many departments have their own scholarship funds for which students should inquire by writing to the department chairperson. Athletes should write to the coach of a specific sport.

Pell Grant

All undergraduate students, who have not received their first baccalaureate degree, are eligible to apply for this program. Appalachian will not consider a student for any other federal aid until he/she has applied for this grant. Students may apply for the Pell Grant on either of the need analysis forms, by following the directions on the form, or may use the free application for federal student aid.

Supplemental Educational Opportunity Grants

This program is part of the Higher Education Act of 1965, with the purpose being to assist in making available the benefits of higher education to qualified high school graduates who can demonstrate extreme financial need. The recipient must maintain satisfactory progress in his/her course of study and be a full-time student during the academic year. The student must also apply each year for this grant.

Minority Presence Grants

Under the Board of Governors general Minority Presence Grant Program, black students may be eligible for special financial assistance if they are residents of North Carolina, enrolled for at least three hours of degree-credit coursework, and demonstrate financial need.

North Carolina Student Incentive Grant

All North Carolina undergraduate students who have "substantial financial need" should have a copy of their need analysis sent to the NCSIG Program in addition to the univer-

sity they plan to attend. This is accomplished by marking the appropriate box on the need analysis form.

Scholarships

Appalachian offers a variety of general and departmental scholarships to both graduate and undergraduate students. For further information about available scholarships, contact the Student Financial Aid Office, Appalachian State University, Boone, NC 28608, or call (704) 262-2190. Graduate students should contact the graduate school office, Appalachian State University, Boone, NC 28608 or call (704) 262-2130 for scholarship information.

Chancellor's Scholarships

(Available only to incoming freshmen) University Honors annually offers 25 academic scholarships to excellent students in all majors. These awards provide in-state tuition and fees, room and standard meal option, and book rental. Scholarships are awarded on the basis of high school achievement, learning aptitude, and a commitment to the active and involved learning promoted in the honors program. Application involves an essay, as well as interview, for finalists. During the freshman and sophomore years, Chancellor's Scholars are required to be enrolled in at least one honors course each semester. Thereafter, they are encouraged to continue in honors at the departmental level and to pursue graduation with honors. Chancellor's Scholars must maintain a minimum 3.4 grade-point average to retain the scholarship.

Scholarship applications are available from the Office of Admissions or from the Coordinator, University Honors Programs, Appalachian State University, Boone, North Carolina 28608. Deadline for application is January 31. Announcements of awards will be made by March 15.

College Scholars Program

(Available to incoming freshmen and incoming transfer students.) The College of Arts & Sciences offers scholarships of $1,000 to students who plan to major in one of the departments in the College of Arts & Sciences. (See the Table of Contents for a list of departments in this college.) Students must provide evidence of scholastic aptitude, maturity, and quality of character which projects a high probability of scholarship excellence.

Scholarships are renewable up to a maximum of four years provided the students maintain a 3.0 grade-point average. For further information, contact Dr. Edwin T. Arnold, College of Arts & Sciences, Appalachian State University, Boone, NC 28608.

The College of Business

The College of Business offers several renewable scholarships to entering freshmen students including the John A. Walker Scholarship of $2,500 per year; the Frank M. Payne Memorial Scholarship of $1,000 per year for Risk and Insurance majors; and the Tom and Virginia Mosley Scholarship of $500 per year. The College of Business Minority Student Award of $1,000 is also available for freshmen and may be renewed for three additional years.

There are several one-year College of Business Outstanding Student Scholarships available to freshmen and upperclass students. Specific scholarships for various majors within the college are also awarded yearly.

The College of Business scholarship committee considers factors such as academic achievement, extracurricular activities, interest in a business career and evidence of leadership and maturity in making its selection for each of the scholarships.

Information about these scholarships may be obtained from the Walker College of Business Dean's Office, Appalachian State University, Boone, NC 28608.

Freshman scholarship in teacher education
(Available only to incoming freshmen.) The Reich College of Education offers scholarships of $1,000 to students who plan to major in a teacher education area. Scholarship applicants must provide evidence of scholastic merit, commitment to teaching, potential to be an effective teacher and demonstrated leadership. Recipients are selected by the Reich College scholarship committee who are appointed by the dean of the college.

Scholarships are renewable for three consecutive years provided a 3.25 grade point average is maintained and a major in a field of education is continued.

For further information, contact Dr. Mae Reck, Reich College of Education, Appalachian State University, Boone, NC 28608

College of Fine and Applied Arts
The College of Fine and Applied Arts offers renewable scholarships of $1,000 to incoming freshmen majoring in one of the departments in the College of Fine and Applied Arts. The departments are: Art; Communication; Health, Leisure and Exercise Science; Home Economics; Military Science, Technology; and Theatre and Dance. Recipients must be admissible as entering freshmen and have a minimum high school grade-point average of 3.25; or be in the upper 25 percent of their graduating class, and have a minimum combined SAT score of 1100; or be able to show exceptional performing talent in the disciplines of art, communication, or theatre. Continued eligibility requires the student to maintain a grade-point average of 3.0 and continue to meet defined departmental expectations. The selection committee considers maturity, scholastic and/or creative aptitude, and quality of character which projects a high probability of success in the academic discipline. Scholarships are available to incoming freshmen and transfer students. For further information, contact: Office of Admissions, Scholarship Section, Appalachian State University, Boone, North Carolina 28608.

School of Music
The School of Music offers opportunities for financial aid to music majors. Scholarship contracts are awarded in the spring prior to the academic year in which the scholarship is in effect. Unless stated otherwise, awards are renewable through the ninth semester, including the semester of the student teaching experience. All scholarships may require recipients to participate in two ensembles on their major instruments or voice. A 2.0 GPA must be maintained to renew any scholarship; the "good student" scholarship requires a 3.0. Applications for awards should be returned to the School of Music office before March 1 for consideration of the following academic year. For further information, contact Dr. Joe Brashier, Coordinator of Scholarships and Recruiting, School of Music, Appalachian State University, Boone, North Carolina 28608.

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The instructional program

The instructional program at Appalachian State University is diversified, attempting to meet the needs of many types of students. In addition to the course offerings listed under each instructional department, students may elect to do independent study under the direction of selected faculty members, to participate in an internship, or to participate in the University honors program. Detailed information on each of these options is given in appropriate sections of this catalog.

A new catalog is issued biennially; and, while course offerings are fairly continuous from year to year, the faculty reserves the right to make changes in curricula, degree requirements, and academic policies. The information in any given catalog is, therefore, usually valid only for the two-year period of its issue, and is superseded by subsequent issues. Any interested person should consult the most recent issue of the University catalog for current information about the instructional program.

Any changes in degree requirements do not, however, affect a student already enrolled in a degree program. In those rare cases where specific required courses are no longer available, the dean's office will identify suitable substitutes which do not increase the overall credit requirements. All students may elect to graduate in accordance with the degree requirements as recorded in the catalog that is current at the time of their first registration or any subsequent edition (provided the student is enrolled during a period in which the catalog is in force) except that any catalog chosen must not be more than six years old. Students electing to graduate under a new catalog must meet all requirements of the catalog under which they wish to graduate subject to the exception noted above for those cases when specific courses are no longer available. In order to change the catalog under which they intend to graduate, students must notify the office of the dean of the college in which they are enrolled.

A student returning to Appalachian under either the "Four-Year Policy" or with an acceptable Associate's degree must graduate under the catalog in force at the time they re-enter. (Subsequent catalogs are, of course, acceptable.)

Changes in academic policies become effective to all students on the date approved for implementation.

The Board of Governors of The University of North Carolina is the governing body of Appalachian State University. The powers of the chancellor and the faculty are delegated by the board.

Registration at Appalachian indicates the student's willingness to accept both published academic regulations and rules found in official announcements of the University. In the interest of all its students, Appalachian reserves the right to decline admission, to suspend, or to require the withdrawal of a student when such action is, by due process, deemed in the interest of the University.

Academic policies and regulations

Policies and procedures concerning the release of student information

I. Purpose and scope of the statement
   A. Purpose-This statement establishes updated guidelines for the University on the matter of confidentiality of student records. It has been developed in the light of legislation concerning access to and release of information maintained in student records in institutions of higher learning. (The Family Educational Rights and Privacy Act of 1974.) Any questions on these policies should be referred to the University registrar.
   B. Scope-These policies cover all records maintained at the University. This means that they will apply to any student—current or former—who actually completed registration at one time.

II. University policy regarding confidentiality of student information.
   A. In response to inquiries from the general public, such as prospective employers, credit investigators, etc., only the following directory information is released without the student's permission:

      "the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, class schedule, and previous educational agency or institution attended by the student".

      Any student who wants to make a specific request that directory information not be released should contact the Registrar's Office.
   B. Transcripts are released only upon the written request of the student. Transcripts will not be released if the student is financially indebted to the University.
   C. A student has the right to inspect the contents of her/his educational records with the exception of documents submitted to the University in confidence prior to January 1, 1975. Transcripts in the folder from other institutions are property of Appalachian and will not be returned to the student or sent elsewhere at her/his request.
   D. Grade reports will be mailed directly to the student at her/his permanent address. If parents or guardians request academic or personal information other than that specified in statement IIA, the request may not be honored without the student's written permission unless the parent can present evidence of the student's being dependent upon the parent for support as defined by the Internal Revenue code.

Degree requirements

Students should refer to the requirements of their respective colleges for information about their courses of study and confer with their advisors whenever problems arise.

Students should pursue required courses in the suggested sequence. Failure to do so may lead to scheduling difficulties and students may find that the subjects for which they wish to enroll are either not available or closed to students with advanced standing.

Institutional credit

Courses numbered less than 1000 (excluding applied music courses, major-principal, MUS 0401-0499) are taken for "institutional credit" only. These courses WILL NOT count

for graduation, but are computed in the student's GPA (the hours count toward full-time student eligibility, but do not count toward hours required for graduation).

Courses of instruction

Courses are listed in numerical order in each department listing. Courses numbered 0001-0999 are remedial; 1000-1999 are usually offered for freshmen; 2000-2999 are usually offered for sophomores; 3000-3999 are usually offered for juniors; 4000-4999 are usually offered for seniors; 4500-4999 are usually offered for seniors and graduates; and 5000 and above are for graduate students. This does not preclude the possibility of students taking courses above the level of their classification, provided they meet the necessary prerequisite requirements and any special requirements of the degree granting college (see also Item 7 under credit limitations). Courses open to lower classes are also open to upper classes.

The figure in parentheses after the course title tells the credit in semester hours; for example, the figure (3) means three semester hours.

Semesters of the year in which the course is offered are represented by symbols: "F" for fall semester, "S" for spring semester and "SS" for summer session.

A hyphen in the course number, credit, and semesters of the year in which the course is offered indicates that the course extends through more than one semester and that the preceding semester must be completed before the following semester can be taken.

The comma in the course number, credit, and semesters indicates that the course is continuous but that one semester may be taken independently of another.

The semicolon in the semesters offered indicates that the course is a one semester course and is repeated in a subsequent semester. If the course is a two semester sequence, the semicolon in the semester offered indicates that all courses listed are normally taught in the semesters indicated. Special requirements for admission to a course are stated after the word prerequisite.

In stating departmental prerequisites, the following list of standard abbreviations will be used:

Accounting	ACC	Computer Information Systems	CIS
Anthropology	ANT	Computer Science	CS
Appalachian Studies	AS	Criminal Justice	CJ
Applied Music	AMU	Curriculum and Instruction	CI
Art	ART	Driver and Traffic Safety Education	TSE
Athletic Training	AT	Economics	ECO
Biology	BIO	Education Foundations	FDN
Business Education	BE	English	ENG
Chemistry	CHE	Exercise Science	ES
Chinese	CHN	Finance, Insurance and Real Estate	FIR
Communication	COM		
Communication Disorders	CD		

Foreign Languages and Literatures	FL
French	FRE
General Honors	GH
General Science	GS
Geography	GHY
Geology	GLY
German	GER
Health Care Management	HCM
Health Education	HED
Health Promotion	HP
History	HIS
Home Economics	HEC
Hospitality Management	HOS
Human Development and Psychological Counseling	HPC
Interdisciplinary Studies	IDS
Japanese	JPN
Latin	LAT
Leadership and Higher Education	LHE
Leisure Studies	LS
Library Science	LIB
Management	MGT
Marketing	MKT
Mathematical Sciences	MAT
Military Science	MS
Music	MUS
Philosophy and Religion	P&R
Physical Education	PE
Physical Science	PHS
Physics and Astronomy	PHY
Planning	PLN
Political Science	PS
Production/Operations Management	POM
Psychology	PSY
Reading	RE
Russian	RSN
Social Work	SW
Sociology	SOC
Spanish	SNH
Special Education	SPE
Statistics	STT
Technology	TEC
Theatre and Dance	TD
University Studies	US

The administration reserves the right to cancel any course for which there is insufficient enrollment.

Standards of scholarship

In all work for a degree, scholarly performance is expected. The student is expected to demonstrate academic competence, intellectual honesty and responsibility, a willingness to do more than the minimum required, and the ability to think critically and constructively.

State statutes concerning standards of scholarship are as follows:

14-118.2. Assisting, etc., in obtaining academic credit by fraudulent means.

(a) It shall be unlawful for any person, firm, corporation or association to assist any student, or advertise, offer or attempt to assist any student, in obtaining or in attempting to obtain, by fraudulent means, any academic credit, or any diploma, certificate or other instrument purporting to confer any literary, scientific, professional, technical or other degree in any course of study in any university, college, academy or other educational institution. The activity prohibited by this subsection includes, but is not limited to, preparing or advertising, offering, or attempting to prepare a term paper, thesis, or dissertation for another and impersonating or advertising, offering or attempting to impersonate another in taking or attempting to take an examination.

(b) Any person, firm, corporation or association violating any of the provisions of this section shall be guilty of a misdemeanor punishable by a fine of not to exceed five hundred dollars ($500.00), imprisonment for not more than six months, or both. Provided,

however, the provisions of this section shall not apply to the acts of one student in assisting another student as herein defined if the former is duly registered in an educational institution and is subject to the disciplinary authority thereof. (1963, c.781; 1969, c. 1224, s.7.)

Credits

Appalachian operates on the semester system with the year divided into two semesters and a summer session, which is divided into terms of varying lengths. The unit of credit is the semester hour, and the number of semester hours credit for each course offered by the University is given in the sections of this catalog where courses of instruction are listed.

Registration

The majority of students entering the University do so at established semester periods. To provide for the orderly processing of these registrations, specific times have been set by the Registrar's Office as the "beginning" and "ending" of the registration period. Students are expected to register at the time specified by the Registrar's Office. Registration schedules are announced and registration materials are available in the Registrar's Office. A fee is charged for late registration. The late fee for registration will also be assessed on accounts where a check, used to pay registration charges, is returned due to "insufficient funds" or other reasons.

The University recognizes that there are those who are unable to register at established semester periods. Appalachian State University provides for each student to register at any time during the semester (subject to special requirements of the college in which the course is housed) and commence coursework, which is taken primarily on an independent or individual study basis. (For an explanation of independent study and individual study, refer to those sections in the index). For complete details regarding this registration procedure, contact the Registrar's Office. No late fee is attached to such special registration.

Grades and grade points

At the end of each grading period grades are given in each course by letters which indicate the quality of work done by the student.

A	excellent, 4 grade points per semester hour.
A-	excellent, 3.7 grade points per semester hour.
B+	above average, 3.3 grade points per semester hour.
B	above average, 3 grade points per semester hour.
B-	above average, 2.7 grade points per semester hour.
C+	average, 2.3 grade points per semester hour.
C	average, 2 grade points per semester hour.
C-	average, 1.7 grade points per semester hour.
D+	below average but passing, 1.3 grade points per semester hour.
D	below average but passing, 1 grade point per semester hour.
D-	below average but passing, .7 grade point per semester hour.
F	failure, 0 grade points.

P	pass, 0 grade points (used only for courses taken on pass-fail basis).
F*	failure, 0 grade points (*indicates only that the course was taken on the pass-fail basis; this grade is equivalent to the F above).
AU	audit, no credit
I	incomplete, because of sickness or some other unavoidable cause. An I becomes an F if not removed within the time designated by the instructor, not to exceed a year, except that all incompletes must be removed at the time of graduation. An incomplete should not be given merely because assignments were not completed during a semester.
NR	grade not reported (hours not counted in computing GPA).
W	withdrawal, either from a course or from the University.
WF	withdrew failing, course dropped with failing grades more than five weeks after registration closes.
@F	administrative F
S	satisfactory, 0 grade points (used for student teaching, screening proficiencies, and specially designated courses in the curriculum).
U	unsatisfactory, 0 grade points (used to indicate unsatisfactory performance in student teaching, screening proficiencies, and specially designated courses in the curriculum).
WU	withdrew unsatisfactory.

Pass-fail grading system

Any undergraduate student who is 1) full-time (registered for 12 or more hours), 2) has attained at least sophomore standing (earned at least 28 hours), and 3) has a minimum grade point average of 1.75 may elect to take one course each semester under the pass-fail grading system, **not to exceed a maximum of six (6) pass-fail courses while enrolled at the University.** Any undergraduate course may be chosen under this option, **except those courses used to comprise the total hour requirements of the student's major, minor, general education, and B.A. degree foreign language requirements. In essence, the pass-fail grading system is intended only for "free elective" credit. It is the responsibility of the student to make sure that he/she does not violate this limitation.** Graduate students may not elect the pass-fail option. If a course taken under the A-B-C-D-F grading system is repeated, it must be repeated under the A-B-C-D-F system.

A student who elects the pass-fail option at the beginning of a term will be allowed to drop the option sometime after mid-term examinations and be given the end-of-course letter grade earned. There will be a time period specified by the registrar for dropping the pass-fail option, and this time period will be announced in the schedule of classes each term. However, once the pass-fail system is elected for a given course, a change to another course may not be made. Because of the length of the summer terms, there are no provisions for removing the pass-fail option after it has been selected for a course.

A grade of "P" means that the student's grade was equal to a "D" or above on a conventional grading scale. The hours earned will count toward graduation but the grade will not be computed in his/her grade-point average. A grade of "F" means that the student failed the course. No credit is earned, but the grade of "F" is computed in the student's grade-point average as an "F".

Students should also be aware of the disadvantages which could result from using the pass-fail option (i.e., many graduate schools will not accept transcripts containing a "P" notation.)

In order to choose the pass-fail option in a course, the student will get a special pass-fail form from the Registrar's Office. It must be completed and turned in to the Registrar's Office prior to the close of the period during which a course may be added.

Grade-point average and repeat policy

The grade-point average (GPA) is a general measure of the student's academic achievement while at Appalachian. The GPA is determined by dividing the total number of quality points earned by the total number of quality hours attempted ("quality points" and "quality hours" are derived from courses graded A-F or WF). The GPA is computed only on the basis of coursework taken at Appalachian.

Students may, for a variety of reasons, elect to repeat a course. If a student so elects, the following policies will govern the awarding of credit and the computation of her or his GPA:

1) Credit hours earned in a particular course will not be awarded more than one time; i.e., if a course in which credit hours have been earned is repeated with a passing grade, additional credit hours will not be awarded. If, however, a course in which credit hours have been earned is repeated with a grade of "F", "U", or "WF", the hours earned initially will be subtracted from the student's total.
2) When a course is repeated, the grade earned in the **initial attempt** can be exempted from computation in the student's GPA for a maximum of five (5) courses. The student must indicate to the Registrar's Office, in writing, which courses are to be excluded from GPA computation under this policy.
3) A course may not be repeated if the content has changed substantially, or if the number of credit hours has been reduced.
4) If neither the number nor the title of a course has changed but the content has changed substantially, it will be the responsibility of the chairperson of the department in which the course is offered to notify the Registrar that a student who took the course prior to the change in content may not repeat the course for credit.
5) Whenever a student has received a grade of incomplete ("I") in a course, the student will be permitted to re-register for the course in which the incomplete was given without the "I" changing to an "F", provided that it is within the designated period of time, not to exceed one year.

Academic load

An undergraduate student usually takes from 15 to 18 hours a semester. In special situations, an undergraduate student may take more than 18 hours a semester. To do this, the student must have prior approval of the dean of the college in which she/he is enrolled. Registration for less than 12 hours places the student on part-time status.

An undergraduate student must take 12 semester hours during a regular semester (and if in summer school, six semester hours each session) in order to be a full-time student.

The maximum course load for graduate students during the regular academic year is 15 hours per semester for students without assistantships, and 9-12 hours for those holding assistantships. For the summer session, the course load is six semester hours. Graduate degree candidates may not earn more than 12 hours for the entire summer.

Residence

Students must complete at least 30 semester hours at Appalachian, including eight hours in their major and four hours in their minor, and make at least a 2.00 average overall and in the major or area of specialization on work taken at Appalachian. The senior year (two semesters) must be spent in residence at the University. Requirements for a bachelor's degree must be completed within 11 semesters of residence or the equivalent.

Credit limitations

1. A maximum of 20 semester hours of field based and/or correspondence work from recognized institutions may be credited toward meeting the requirements for graduation. Some correspondence courses are offered by the University. Before registering at another accredited institution for a correspondence course to be transferred to Appalachian, students must have the written permission of the dean of their college. In order to obtain this permission, the student must first secure the proper form from the Registrar's Office to be signed by the dean involved. The combined load of residence courses and correspondence courses may not exceed the maximum load allowed.
2. Except for physical education majors, not more than six hours in physical education activity courses (limited to courses numbered PE 1000-1099) may be included within the 122 semester hours required for graduation.
3. A candidate for the Bachelor of Arts degree may count not more than a total of 40 hours above general education requirements in any one discipline.
4. Validation of credits earned more than 10 years prior to the date of graduation may be required if and when they are submitted to fulfill baccalaureate degree requirements.
5. All baccalaureate degrees granted by Appalachian require the completion of a **minimum of 60 semester hours at a senior college or university.** (Note that credit awarded for military service or "Prior Life Experience" does not count as part of the required 60 hours.)
6. Degree-seeking students at Appalachian may NOT enroll at another collegiate institution unless prior approval has been obtained from the dean of the student's Appalachian college. Appalachian students who wish to attend another collegiate institution should contact the Appalachian Registrar's Office to 1) secure the proper application forms, and 2) have the intended coursework evaluated. Failure to obtain prior approval may result in the coursework being deemed unacceptable for transfer to Appalachian.
7. Seniors with a grade point average of 3.00 or above may, with written permission from the course instructor, chairperson of the department offering the course, and the graduate dean, be permitted to take one or more graduate courses for

undergraduate credit. Credit earned in this manner will be used to meet baccalaureate degree requirements and may not be applied toward a graduate degree.

Seniors with a grade point average of 3.00 or above desiring to enroll in graduate level courses for **graduate** credit to be applied to a graduate degree may do so provided they have: (1) made application for admission to the Graduate School; (2) made application to take the GRE or GMAT; and (3) obtained written permission from the course instructor, chairperson of the department offering the course, and the graduate dean.

8. If a student has been awarded a bachelor's degree, a second (or subsequent) bachelor's degree can be earned by completing, as a minimum, an additional 30 semester hours in residence, and all catalog requirements stipulated for the second (or subsequent degree.)

   If a student wishes to earn two degrees at the time of **initial graduation**, she or he must complete, **as a minimum** 152 semester hours—122 plus an additional 30 **in residence**—and all catalog requirements stipulated for the respective degrees.

   Credit by examination cannot be used to satisfy the "residence" requirements indicated above.

9. An undergraduate student may include a maximum of 3 semester hours credit under the Instructional Assistance Program toward meeting graduation requirements.

Absences from class

General attendance policy

1. It is the policy of Appalachian State University that class attendance is considered to be an important part of a student's educational experience. Students are expected to attend every meeting of their classes, and are responsible for class attendance. No matter what bases exist for absence, students are held accountable for academic activities, and faculty may require special work or tests to make up for the missed class or classes. Faculty, at their discretion, may include class attendance as a criterion in determining a student's final grade in the course. On the first day of class, faculty must inform students in writing of their class attendance policy and the effect of that policy on their final grade. If class attendance is to affect a student's final grade, then a statement to this effect must be a part of the course syllabus distributed to each student.
2. A syllabus is to be prepared for each course and distributed at the first of the semester. The syllabus should include the following: an explanation of course goals and objectives, the name of the text and any other materials required of each student, the instructor's office hours, an explanation of how the grade is to be determined, and an explanation of any additional reading, papers, projects and examination which the instructor expects to give or assign.
3. Syllabi for courses taught in the present and previous semester should be on file in the departmental offices and should be made available to students who request them. These syllabi would indicate the structure of courses as they are being or have been taught.
4. The Registrar's Office is allowed to assign an administrative withdrawal to the "audit"

student who has not been "regular in attendance". Documentation will consist of an appropriate notation by the faculty member of record on the final roll.

Attendance policy relating to participation in University sponsored activities
As an integral part of the academic program at Appalachian State University, the university sponsors and otherwise supports co-curricular programs, athletic programs, and other out-of-class activities such as field trips. Participation in such activities occasionally requires a student to miss one or more class meetings.

A student who expects to miss one or more class meetings because of participation in a university sponsored activity has several responsibilities: The student (in person) will notify the instructor in advance of any absence; the student is expected to complete all work missed by making up the work in advance or by completing any compensatory assignment which may be required by the instructor; the student is expected to maintain satisfactory progress in the course; and the student (otherwise) is expected to maintain satisfactory attendance in the class if so required. In the event that a student anticipates that participation in a university sponsored activity will require missing more than 10% of the class meetings, the student is required to discuss this matter with her or his instructor at the beginning of the semester and may be advised to drop the course.

If the above responsibilities are met, it is expected that the instructor will excuse the absence and permit the student to make up missed work in whatever manner the instructor deems appropriate.

Emergency Absences

When a student is **out of town** and unable to return to campus due to hospitalization, death in the family, or other extenuating circumstances, the student or her/his parents may contact the Office of Student Development to request that professors be notified as to the reason for the absence. This notification is conveyed to the appropriate departmental office as a matter of information only and does not serve as an official excuse for class absence. Only individual faculty members make this determination, and documentation may be requested by the faculty members. The Office of Student Development does not provide this service when notification is received **after** the absence has occurred. Also, if a student is **in town**, that student is responsible for notifying the individual faculty members that she/he will be missing class.

Inclement Weather
The University has an inclement weather policy under which classes may be cancelled. When weather conditions are threatening, the director of Appalachian State University's News Bureau is notified by 7 A.M. if classes are to be cancelled. WASU and WATA in Boone are called first. Other area radio stations which are notified include WXRC in Hickory, WKBC in North Wilkesboro, WKSK in West Jefferson and WJTP in Newland. Television stations and major radio stations in Charlotte and Winston-Salem are also notified.

Change of course

Students may add courses or change sections until the close of registration. To add a course or change the section of a course, the student must go to the registration area, complete

a "drop-add" form, and determine whether the desired course or section is available. If available, the student is enrolled and given a copy of the drop-add form for her or his records. This copy verifies enrollment in the class and must be presented at the Registrar's Office in case they later wish to drop the class.

There will be a five-week drop period from the beginning of classes. The cut-off date for the drop period will be announced by the registrar in the schedule of classes published each semester. After this period, no drops will be allowed except for exceptional circumstances. The signatures of the instructor and chairperson, and the approval of the dean of the college in which the course is offered, will be required.

Any drops approved for exceptional circumstances will not be used in computing the grade point average and will not be recorded on the permanent record.

During the drop period, a course may be dropped or changed from credit to audit with no academic penalty. To accomplish this, the student must contact the Registrar's Office, in person, and complete the necessary forms.

Failure to complete a course that has not been officially dropped will automatically result in a grade of "F", which will be computed in the student's grade-point average.

Withdrawal from the University

A student who wishes to withdraw from the University for any reason must make arrangements with the Office of Student Development prior to withdrawal. A graduate student must contact the dean of Graduate Studies and Research.

Students who withdraw because of illness or extreme emergency will receive grades of W. Students who withdraw for reasons other than illness or extreme emergency after the five-week drop period will receive a grade of F in each course taken.

Students who withdraw unofficially will receive grades of F.

Course examinations

All scheduled examination periods will be met at the assigned time. A final examination period is provided at the end of each semester. After the schedule for examinations has been made, an instructor may NOT change the date or time of an examination without permission of the department chairperson and dean. Instructors determine how they will use the assigned period, but all scheduled examination periods will be met at the assigned time. A student may take an examination outside of the scheduled time only by permission of the instructor of the course. Permission is granted only in case of emergency.

A student who is absent from a final examination because of an emergency takes the make-up examination at the convenience of the instructor.

Major tests and assignments prior to exams

It is strongly recommended that no tests or major assignments not included on the syllabus be made during the five class days prior to the final exam period. This recommendation, however, does not include "make-up" tests.

Grade reports

Final semester grades are reported to the Registrar's Office not later than 2:00 P.M. on the day following the last day of the semester. The grade rolls which are provided for this purpose also have an indicated portion which each instructor is required to post. At the end of each semester, a report of the student's grades is sent to the student. (Note, however, that North Carolina law prohibits the release of grades, transcripts and diplomas to students with unpaid accounts.)

Classification

At the end of each semester students are classified on the basis of semester hours. All students admitted as degree-seeking and who have completed less than 28 semester hours are classified as freshmen.

Students who have completed at least 28 semester hours are classified as sophomores.

Students who have completed at least 60 semester hours are classified as juniors.

Students who have completed 90 semester hours are classified as seniors.

Academic standing

To continue at Appalachian in good academic standing, a student must earn, as a minimum, the following cumulative grade-point average (GPA) at the end of the semester indicated:

	Cumulative GPA
Semester 1	1.25
Semester 2	1.50
Semester 3	1.75
Semester 4	1.90
Semester 5 (and thereafter)	2.00

Failure to earn a grade-point average indicated above will automatically place the student on academic probation during the semester that follows. (The grade-point average at Appalachian is computed **only** on the basis of coursework taken at Appalachian; i.e., grades earned on coursework taken at other collegiate institutions or by correspondence will not be computed in or allowed to affect the grade-point average at Appalachian.)

While on probation, however, a student will, within the limits prescribed below, be allowed to continue:

1. An undergraduate student, whether admitted as a freshman or a transfer, will be allowed to enroll for a maximum of two (2) academic terms of probation.
2. The dean of a college or school can attach specific requirements before enrollment on probation is approved. These requirements may include special advising sessions, a limitation on the number of hours for which the student may enroll, the requirement that certain courses be repeated, enrollment in developmental courses, etc.

If a student uses the two terms of academic probation mentioned above, but again fails to earn a cumulative grade-point average sufficient to place her or him in good academic

standing, that student will be automatically suspended from further enrollment at Appalachian. At that point, the student's only recourse is to enroll during the University's summer terms until such time that the grade-point average places her or him in good academic standing. (A summer term does not count as a semester in residence for the purpose of computing academic eligibility. Undergraduate students in academic difficulty—probation or suspension—may always attend Appalachian during the summer.)

Field-based option

In fulfilling its obligation as a regional university, Appalachian State University provides an opportunity for persons seeking a degree to pursue the degree in field-based programs established by special arrangement. Designed primarily for other than full-time students, the field-based degree program provides the opportunity for such persons to extend or update their academic credentials with only short, conveniently scheduled, on-campus experiences. The bulk of the program is delivered close to the community that has requested and arranged for the field-based option. For details regarding these degree programs, contact the chairperson of the department in which the degree program is offered.

Independent study

Anyone seeking to pursue independent study must be either a candidate for a degree at Appalachian or working for teacher certification.

Independent study is the term applied to the study of a subject not listed in the regular curricular offerings. Under the independent study program a student designs a project and then individually pursues the study under the auspices of an instructional staff member who serves as a consultant for the student during the course of the study. The vehicles for this are course numbers 2500, 3500, 5500, and 6500 depending on the level of the student. **For information on independent study, students should consult the chairperson of the department in which the independent study is to be done.**

Individual Study

Anyone seeking to pursue individual study must be either a candidate for a degree at Appalachian or working for teacher certification.

Individual study is the pursuit of a regularly listed course by a student without attending classes on a regular basis. The student who wishes to pursue a course by individual study will secure the permission of the chairperson of the department in which the course is offered.

Instructional assistance program

The instructional assistance program is designed for students interested in participating in, for academic credit, supervised experiences in the instructional process on the university level through direct participation in classroom situations. Students with junior or senior standing are eligible to participate in this program. An undergraduate student may include a maximum of 3 semester hours credit under the Instructional Assistance Program

toward meeting graduation requirements. **For further information the student should contact the chairperson of the department in which she/he wishes to engage in instructional assistance.**

Internship

Anyone seeking to pursue an internship must be either a candidate for a degree at Appalachian or working for teacher certification. All internships are to be graded on S/U basis only.

Credit by examination

Not all courses are amenable to credit by examination, but many are. Students who wish to challenge a regularly listed course should consult with the appropriate department chairperson. If arrangements can be made, a fee of $50.00 is charged for each examination and a receipt from the Cashier's Office must be shown to the department chairperson before final approval can be given. If the examination is passed, credit without grade will be noted on the student's transcript. If the examination is not passed, no notation is made on the transcript. In the case of freshmen who take advanced placement examinations during the freshman orientation period, the fee is waived. **Credit by examination may not be used to repeat a course.**

Anyone seeking to pursue credit by examination must be a candidate for a degree at Appalachian or must be working for credit for the renewal of a teaching certificate.

Credit for prior life experience

In exceptional cases credit can be awarded for prior non-college-based learning, if the credit sought is related to the student's degree program (i.e. general education, major or certification requirements). Assessment of prior learning can commence only after a student has been admitted to the university.

The student will first meet with a designated counselor who will help in defining the areas or disciplines in which appropriate creditable learning may have occurred. Actual assessment is done by a faculty member in the appropriate area, for which a $100.00 fee will be charged.

Persons interested should see the dean of the General College.

Veterans' academic credit

Appalachian grants eight semester hours of academic credit to most veterans including six semester hours in military science (ROTC) and two hours in physical education. The University may grant specific course credit for completion of certain types of military schools and for some USAFI and CLEP work. Information on veterans' academic credit is available at the Registrar's Office.

Honors

To encourage scholarship, the University officially recognizes students who distinguish themselves in academic pursuits. Honors day is observed for all students qualifying for scholastic honors, and each honor student is awarded a certificate.

The Gamma Beta Phi Society is a National honor and service organization for students who have earned at least 14 semester hours with a cumulative 3.25 grade-point average.

Alpha Chi, a national scholastic fraternity, is open to not more than the top ten percent of the junior and senior classes who have a grade-point average of not less than 3.50. Phi Kappa Phi, a national scholastic fraternity, honors outstanding scholarship among graduating seniors in each of the colleges who have attained at least a 3.70 grade point average. Occasionally, Phi Kappa Phi taps several outstanding junior scholars for membership.

Dean's list

An undergraduate student who carries at least 12 hours of coursework on which grade points are be computed and who attains a grade-point average of 3.25 or better is placed on the dean's list of honor students for that semester.

Honor teaching

A student who shows exceptional initiative, scholarship, and excellence in student teaching may be designated and recognized as an honor teacher. The honor will be entered on the student's official record.

Graduation with honors

To be eligible for graduation with honors, an undergraduate student must complete, in residence at Appalachian, a minimum of either four semesters in full-time attendance (defined as twelve or more credit hours per semester), or a total of 58 semester hours. (Note: Credit for which a grade is not awarded will not be used in the determination of honors—e.g., APP, CLEP, credit by examination, credit for military service, credit for prior learning, etc.) A grade-point average of 3.45 is required for graduating *cum laude*; a grade-point average of 3.65 is required for graduating *magna cum laude*; and a grade-point average of 3.85 is required for graduating *summa cum laude*.

Graduation

Degrees are conferred at the close of each academic term (fall, spring, summer). Formal graduation ceremonies, however, are held only at the close of the Fall and Spring terms. Candidates for baccalaureate degrees and/or North Carolina teacher certification must file an application with the Registrar's Office at the beginning of the term in which graduation requirements will be completed. At the time of filing the application, all requirements except current work should be completed.

At the beginning of each term, the Registrar's Office will notify all seniors ostensibly eligible to graduate—i.e., those currently enrolled for a sufficient number of hours to meet the University requirement—of the required procedure and deadline date. Exceptions to the deadline date would be made ONLY by the Registrar's Office.

Transcripts

Transcripts **must** be requested **in writing** from the Registrar's Office. **A charge** of $2.00 per copy will be made for official transcripts; there is no charge for unofficial transcripts. Transcripts (official or unofficial) **will not** be issued to students having unsettled accounts with the University.

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The General College

O.K. Webb, Jr., Dean

The General College provides academic orientation for all entering undergraduates as well as academic advising for all students enrolled in the college. It oversees the general education program for all undergraduates. In addition, it has responsibility for the Learning Assistance Program, the International Studies Program, Freshman Seminar, and the University Honors Programs, including General Honors.

In its orientation program, the college utilizes faculty members, staff, and upperclass students in providing information on academic programs, placement testing, advice on course scheduling, University policies and procedures and academic support services. Orientation services take place during the summer and prior to the beginning of each semester.

All freshman students entering the University are enrolled in the General College. Transfer students who do not meet admission requirements of a degree-granting college enroll in the General College until such requirements are met.

Although the General College is responsible for administering its students' academic affairs, policy decisions in such matters are made in cooperation with the dean of the college offering the courses in question.

A professional advising staff member in the General College is assigned for each freshman and will work with the student until a major is declared. The advising staff is supplemented by advisors who are drawn from academic faculties across the campus. Academic advising is mandatory during all semesters in which a student is in the General College.

While in the General College students take both general education courses and preparatory courses for specialized training in their major and minor fields. It is important that students be familiar with the degree requirements for the particular college from which they plan to graduate. The specific requirements and course patterns for the different degrees are given in the sections of this catalog referring to the colleges which grant the degrees. Students are advised to consult carefully these sections as they plan their program for the four years.

Students may officially declare their major and have their advising records moved to their degree-granting college when they have earned at least 28 semester hours, completed English 1000 and 1100 and have a 2.00 cumulative grade point average. Even though students may not have met all requirements for admission to the degree-granting college at this point, they are provisionally accepted for advisement and record keeping purposes. This enables students in their sophomore year to have contact and identification with the faculty and students in the department of their intended majors.

General education

Courses in communication, humanities, mathematics, social science, natural science, behavioral science, and physical education are designed to give a student competence

in communications and logical thinking, a broad acquaintance with the various components of human knowledge, an understanding of our cultural and social heritage, an opportunity to develop value judgments and constructive attitudes, and the ability to function purposefully in a democratic society.

General education requirements comprise approximately one-third of the total credit in all bachelor's degree programs. Except for English 1000-1100, which should be taken during the first year, all other general education requirements may be completed at any time prior to graduation. Students are encouraged to spread general education courses throughout their undergraduate curriculum rather than to concentrate them all in the first two years.

For all bachelor's degrees, a student shall complete the following requirements in general education:

a. English ..... **6 s.h.**
English 1000-1100 required.

b. Humanities ..... **12 s.h.**
Courses must be elected from at least three areas listed below. One of the courses must be literature and one must be from the fine arts (art, theatre and dance, or music). **Courses approved for literature are marked with an asterisk.**
Art 2011, 2012, 2013, 2030, 3030, 4030
English, any course in literature at the 2000 level or above.*
English 2170 (counts as a separate area)
Foreign Language 2010, 4010*, 4020
French 3015*, 3025*, 3050, 3055, 4010*, 4560
German 3015*, 3025*, 3050, 3055, 3550
Interdisciplinary studies—Those designated as humanities; observe prerequisites
Latin 3010*, 3020*, 4010*, 4020*
Music 2011, 2012, 2013, 2014; music majors only: 2611, 2612, 3611, 3612; elementary education majors only: 2020
Philosophy, any course subject to stated prerequisites.
Religion, any course subject to stated prerequisites. The following satisfy the literature requirement: 2010*, 2020*
Spanish 3015*, 3025*, 3050, 3055, 3063
Theatre and Dance 2011, 2012, 2014, 2610, 2712, 3430, 3610, 3730, 3735

c. Social sciences ..... **12 s.h.**
(1) History 1101-1102 required.
If students have completed a year of European or world history in high school with an average of B or better, they may meet the general education requirement in history by electing History 2301-2302 or 2401-2402, or 2421-2422.
(2) In addition two courses must be selected from the list below. The courses must be from different areas.
Anthropology, any course, except Anthropology 1230, 2200, and 4750, subject to stated prerequisites
Economics 1010, 2030, 2040, 2510, 2515
Geography 1010, 1020, 3210, Planning 2410
Political science, any course subject to stated prerequisites
Psychology 1200
Sociology, any course except 3885, subject to stated prerequisites
Interdisciplinary studies—Those designated as social science; observe prerequisites

d. **Biological and physical sciences** ..... **6-8 s.h.**
Six to eight semester hours of the same science are required. Selections will be from one of the sequences listed below, or from six-eight semester hours approved by the appropriate departmental chairperson.
Biology 1101-1102
Chemistry 1101-1102
Geology 1101-1102, 1101-1103
Physical Science 1001-1002
Physics and Astronomy 1001-1002; 1101, 1105; 1101, 1106; 1103-1104; 1150-1151

e. **Mathematics** ..... **4 s.h.**
Mathematics 1010, 1020, 1025, 1030 or 1110

f. **Physical Education** ..... **2 s.h.**
Physical education activity courses, numbered 1000 thru 1082 only

Further requirements for the degrees are listed under the programs of the degree granting colleges.

Special Programs

International Studies

Larry Horine, Director

In support of its institutional goals of providing a well-rounded education, and realizing that the students of the University must be prepared for citizenship in an interdependent world, Appalachian offers various programs of international studies. Such programs include the international economics and business option (see description listed in the Departments of Economics and Foreign Languages and Literatures), minors in Latin American studies, Russian, Soviet and East European studies, Asian studies, and international business (for description of international business minor, see listing under College of Business; for all others, see listings under College of Arts and Sciences).

The Office of International Studies coordinates international programs and provides services to students and faculty interested in study, research, teaching, or employment abroad. The resource center maintained by the office contains information about educational systems and opportunities in other nations as well as material on scholarships for both students and faculty. The Office of International Studies sponsors and coordinates various exchange programs for students and faculty, a host family network and issues international student identification cards. The office is also responsible for foreign student advising.

Learning Assistance Program

Nancy Spann, Director

The Learning Assistance Program is an academic support program designed to assist students in achieving their educational goals. The program provides services to students which include tutoring in general education courses, supplemental instruction for courses

that are extremely demanding and have complex reading requirements, videotutoring which provides test review sessions through the AppalNet cable system, and learning skills courses and workshops. Special populations of students who are at risk are also provided a comprehensive system of support which includes tutoring, academic advising, counseling, orientation, instruction, and study skills to enable them to be successful in their academic work. Returning adult students are also provided support services to enhance their college experience. Following are descriptions of the components of the Learning Assistance Program. The program is located in Room 200 of D. D. Dougherty Library.

University Tutorial Services

Mary Quinn, Coordinator

The tutoring program assists students who are having difficulty in their courses and/or want to improve their chances of success in their coursework. The program provides tutorial assistance in general education courses through group and individual tutoring. The tutoring lab is open Monday-Thursday from 8 a.m.-9 p.m. and Friday from 8 a.m.-5 p.m. in Room 200 of D.D. Dougherty Library.

Student Support Services

Cathia Tribby, Coordinator

Student Support Services, funded and supported by the U.S. Department of Education and Appalachian State University, is designed to assist first and second year students enrolled at Appalachian who have potential for success in college but who may experience some academic difficulties. Students selected for the program must be in need of financial assistance and/or be a first generation college student (neither parent has a college degree). The program offers academic advising; personal, career, financial counseling; tutoring; developmental courses and special sections of regular university courses.

Learning Disability Program and Disabled Student Services

Arlene Lundquist, Coordinator

The Learning Disability Program and Disabled Student Services explores and implements academic support services for identified disabled young people who have met regular admission requirements. Efforts extend to assessing the disability and to helping the student meet his individual needs and become successful independent learners. The program provides the following services: academic counseling and assistance, liaison with university faculty, tutoring, implementation of alternative methods and materials, guidance and management of accessibility for the mobility impaired, and practical solutions to learning problems.

Academic Services for Student-Athletes

Brad Berndt, Coordinator

Appalachian values academic excellence as well as athletic achievement. The student-athlete is, therefore, provided a comprehensive academic support system through academic

advising, counseling, tutoring, assistance with registration and orientation, and placement in developmental courses, if necessary. A required study hall is maintained for student-athletes who have special needs.

Upward Bound

M. Wesley Waugh, Coordinator

Upward Bound is funded by the U.S. Department of Education and is designed to assist qualified high school students in reaching their academic and personal potential, as well as to prepare them for post-secondary education. The students come from six local high schools—Avery High School, Watauga High School, Beaver Creek High School, Ashe Central High School, West Wilkes High School and Northwest Ashe High School and meet specific financial and educational guidelines. The program provides academic assistance, social and cultural experiences and personal counseling, both during the academic year and during an intensive residential summer program.

Freshman Seminar

Rennie Brantz, Director

Freshman Seminar is a three (3) credit hour course designed to assist all first semester freshmen with the transition from high school to the university. The course presents a mix of discussions, short lectures, class activities and other learning experiences in a small group setting. Professors are selected from all academic disciplines based on their demonstrated commitment to and care for freshmen.

Students learn about Appalachian and its resources, strengthen study skills, explore academic opportunities, and participate in campus cultural life. Working closely with an experienced faculty member, each student sets priorities and develops long-term goals while managing the daily responsibilities of the freshman year.

Over one-third of all entering students include Freshman Seminar in their first semester program of study. See the course description (US 1150) under the university studies course listings.

University Honors

Don Saunders, Coordinator

The University Honors programs offer promising and highly motivated students a special opportunity to broaden and enrich their academic experience by providing honors courses in anthropology, business and economics, English, geology, history, mathematical sciences, philosophy and religion, physics and astronomy, psychology, and General Honors. Honors courses at the lower division level are designed to fulfill general education requirements.

Several disciplines offer departmental honors for their majors. Check for requirements and procedures in the catalog section for specific departments. All departmental honors programs will require at least nine hours in departmental honors courses, including a three hour senior honors project.

Honors courses are frequently conducted as seminars where students meet in small groups to discuss readings, exchange ideas, debate, and share results of individual study and research. The emphasis in honors is on independent and creative thinking with a great deal of student participation expected.

Students are encouraged to take part in more than one honors program at a time. Honors courses are usually offered by invitation only; but students interested in enrolling may make application to the departmental directors of honors in the areas of interest. Each department establishes its own criteria for admitting students into honors, especially at the upper division level.

University honors offers competitive four-year Chancellor's scholarships to incoming freshmen. For information and application, write to the Coordinator of University Honors Programs, or to the Office of Admissions. Other support facilities, including classrooms, study rooms, special programs, and residence space (for which the coordinator maintains a waiting list), are available to honors students in Coffey Residence Hall.

"University honors program graduate"—This designation is offered to honors students who meet the following criteria:

1. Have completed at least 15 semester honors of honors courses at Appalachian, at least 6 of which are outside the student's major;
2. Maintain a 3.4 GPA in honors courses; and
3. Complete a senior honors project or thesis, to be examined and approved by an advisor in the student's major field and an advisor from another department; making a total of 18 semester hours in Honors. Further information and application forms are available from the coordinator.

General Honors Program

Maggie McFadden, Director

General Honors is a program created especially for students who have demonstrated a high level of academic promise and motivation. It offers four courses designed to serve as replacements for twelve hours of the total of twenty-four hours of general education requirements in the humanities and social sciences areas. Classes include fewer than twenty invited participants, and they are conducted under the guidance of two faculty members who represent diverse academic areas. The courses are interdisciplinary in nature and are intended to exhibit ways in which two or more fields of study bear upon the subject matter. The faculty is selected on the basis of demonstrated excellence in teaching and scholarship.

The sequence begins with a course which focuses upon what it may mean to be human, moves through courses which examine human culture and the place of individuals within it, and ends with a course which speculates on the shape of the human future. The purpose of the sequence is to introduce students to basic concerns of the humanities and social sciences by means of the interdisciplinary approach.

Courses of instruction in general honors (GH)

It should be noted that the indication of a course being offered in summer school (SS)

is tentative. Students are advised to check with the general honors program director regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

1515. The Human Condition/(3).F;S.
A study of sources, origins, and "given" conditions with which humans have to contend, from the perspectives of the humanities and of the physical and social sciences.

2500. Independent Study/(1-3).F;S;SS.

2515. Human Cultures/(3).F;S.
A study of the diversity of human culture, its sources, and its consequences for human behavior and human organization.

2520. Great Humans in Their Cultural Context/(3).F.
A study of major figures in history, emphasizing their relationships to the historical and cultural conditions of their times.

3500. Independent Study/(1-3).F;S;SS.

3515. The Human Future/(3).S.
An examination of possible human futures based on the projections of various disciplines and on potential definitions of the human which have emerged from the courses in the sequence.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).F;S.On Demand.

4010. Senior Honors Thesis/Project/(1-3).F;S.
Independent study and research for an interdisciplinary thesis or project. Directed and graded by a member of the student's major department and a member of another department. May be taken concurrently for credit in a student's major department, if applicable. Prerequisite: completion of an approved honors sequence. (By invitation or application only.)

Courses of instruction in university studies (US)

It should be noted that the indication of a course being offered in summer school (SS) is tentative.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

Courses listed below are sponsored by the General College.

0100. Introduction to Communications I/(3).F;S.
Improves communication skills, especially in writing, through an approach involving reading, speaking, listening and writing. Enrollment by permission of instructor. Course counts as three hours credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (see "Institutional Credit").

0115. Writing the Research Paper/(1).F;S.
An introduction to the formal research paper. Emphasis on the process of gathering, organizing, and presenting, with proper documentation, material for research paper that will have content specified by another course/department in which the student is working. S/U. Course counts as one hour credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (see "Institutional Credit").

1020. Learning Skills/(2).F;S.
A survey of skills and techniques instrumental for classroom learning. Emphasis is placed on note-taking styles, test-taking skills, textbook reading techniques and organizational structures. Enrollment limited to freshmen and sophomores. Students cannot receive credit for both US 1020 and the three hour Freshmen Seminar course.

1150. Freshman Seminar/(3).F;S.
Designed especially for first semester freshmen, this course acquaints the student with the opportunities

and demands of higher education and supports students in their transition to the University. The course involves students in the Appalachian community through a mix of activities, lectures, discussions and participation in cultural events. In small classes, students build learning skills, practice time management and other life skills; examine the purpose and value of higher education and learn to set goals for this semester and beyond.

1530-1531. Selected Topics/(1-4).F;S;SS.On Demand.

2500. Independent Study/(1-4).F;S;SS.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).F;S;SS.On Demand.

3800. International Study/(12).F;S.
A course title for Appalachian students studying abroad within an approved exchange program. Course title is restricted to students approved by director of international studies. Students will complete courses overseas and transfer work into appropriate Appalachian credits within one semester upon return. May be repeated once.

4559. Wilderness Education Practicum/(4).F;S.
Through wilderness challenges supervised by an Outward Bound School or the Wilderness Center at the University, the student will learn such skills as bicycle touring and rockclimbing or ski mountaineering and primitive caving. The goals of this course will be centered around encouraging self-awareness and personal responsibility, developing a sense of conscience and competence, stimulating awareness of nature and human relationships and integrating all aspects of one's personal life. Graded on S/U basis only.

Project Ahead

Project Ahead is a cooperative program between Appalachian and US armed services that offers advising to students who are interested in attending Appalachian but are in the armed services in other places. Students must be admitted to Appalachian but may take courses at accredited post-secondary institutions all around the country. Advising on which courses will transfer to Appalachian to meet requirements is provided by the General College.

The College of Arts and Sciences

Donald W. Sink, Dean
Edwin T. Arnold, Assistant Dean

In cooperation with other colleges of the University, the College of Arts and Sciences strives:

To provide a liberal education for all Appalachian students.

To offer instruction appropriate for specialization in the natural sciences, social sciences, humanities, and mathematics.

To prepare students for certain professions.

To prepare students for entrance into certain professional schools.

To prepare students for graduate study and research.

Departments

The College of Arts and Sciences consists of the following departments:

Anthropology
Biology
Chemistry
English
Foreign Languages and Literatures
Geography and Planning
Geology
History
Interdisciplinary Studies
Mathematical Sciences
Philosophy and Religion
Physics and Astronomy
Political Science/Criminal Justice
Psychology
Sociology and Social Work

Degrees Offered

The College of Arts and Sciences offers the Bachelor of Arts, the Bachelor of Science, the Bachelor of Science in Criminal Justice and Bachelor of Science in Social Work degrees. In cooperation with the College of Education it offers the Bachelor of Science degree with teacher certification in English; French; history; mathematics; Spanish; biology, chemistry, geology, or physics (leading to science education certification); and social science education with concentrations in anthropology, economics, geography, history, political science, or sociology.

Graduate programs leading to the Master of Arts and Master of Science degrees and to the Specialist in Science degree are described in the introductions to the individual departments in the *Graduate Bulletin*. A student desiring to pursue one of these programs should consult with the departmental chairperson and/or faculty advisor.

To be admitted to the College of Arts and Sciences as a candidate for a baccalaureate degree a student must have:

1. Completed at least 60 semester hours.

2. A grade-point ratio of at least 2.00 (which must be maintained).

3. Completed English 1000, 1100.

4. Been accepted by a department in the college as a major in that department.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the director of the office of field experiences, must have a grade-point average of at least 2.20, and must have passed proficiency tests in reading, speech, and written English.

Bachelor of Arts Degree

To earn the Bachelor of Arts degree in the College of Arts and Sciences, the student must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of six semester hours of a second year of foreign language or higher. The Department of Foreign Languages and Literatures places students at the level at which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of 24 to 36 semester hours from one of the fields listed below:

Anthropology	Interdisciplinary Studies
Biology	Mathematical Sciences
Chemistry	Philosophy and Religion
Economics	Physics
English	Political Science
French	Psychology
Geography	Sociology
Geology	Spanish
History	

A student must have at least a 2.00 grade-point average on all work in the major at Appalachian. A transfer student must complete at least eight semester hours of work in his or her major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian. Specific requirements for each departmental major preface the list of courses offered by the department.

5. Completion of a minor consisting of 12 to 20 semester hours from a department other than the departments of Leadership and Higher Education; Curriculum and Instruction; Human Development and Psychological Counseling; Language, Reading and Exceptionalities. A transfer student must complete at least four semester hours in his or her minor at Appalachian.

6. Electives to complete 122 semester hours.

7. Completion of residence requirements.

8. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.

9. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Students pursuing the B.A. degree are advised to refer to the section entitled "Credit Limitations" which apply to that particular degree.

A candidate for the Bachelor of Arts degree may qualify for a teaching certificate by admission to professional education courses through the chairperson of the Department of Secondary Education and by completing all academic and professional education requirements for certification.

Bachelor of Science Degree

(without teacher certification)

In order for a student to earn the Bachelor of Science degree in the College of Arts and Sciences, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Completion of a major as described by the various departments offering Bachelor of Science programs without teacher certification:

Anthropology	Mathematical Sciences
Biology	Physics
Chemistry	Political Science
Geography and Planning	Psychology
Geology	Sociology
History	

Specific requirements for each department major preface the list of courses offered by the department.

Students must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

4. Electives to complete 122 semester hours.
5. Completion of residence requirements.
6. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
7. Recommendation of the faculty.

Meeting graduation requirements is the responsibility of the student.

Bachelor of Science Degree

(with teacher certification)

For the section on requirements for the Bachelor of Science degree with teacher certification, refer to index.

Bachelor of Science in Criminal Justice Degree

To earn the Bachelor of Science in Criminal Justice (BSCJ) degree, the student must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of a major consisting of 54 semester hours as specified and STT 3810. See Department of Political Science/Criminal Justice.

Students must have at least a 2.00 grade-point average on all work in the major at Appalachian. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

4. Electives to complete 122 semester hours.
5. Completion of residence requirements.
6. Compliance with regulations concerning settlement of all expense accounts.
7. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Bachelor of Science in Social Work degree

The following requirements must be met in order for a student to earn the Bachelor of Science in Social Work (BSW) degree in the College of Arts and Sciences:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Completion of the requirements of the social work major which consists of 39 semester hours of professional courses and 33 semester hours of cognate courses as specified. See Department of Sociology and Social Work.

Students must have at least a 2.00 grade-point average on all work in the major at Appalachian. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

4. Electives to complete 122 semester hours.
5. Completion of residence requirements.

6. Compliance with regulations concerning settlement of all expense accounts.
7. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Advisement

Advisement for students in the College of Arts and Sciences is available through the office of the dean of the College of Arts and Sciences and in each of the departments composing the college. Advisement is required prior to each registration and each student is urged to visit the dean's office for a program review one semester prior to graduation.

Internship Programs

The student internship programs offered in most departments in the College of Arts and Sciences provide students the opportunity to learn by working outside the regular classroom setting and to formulate career plans based on the experience gained. Student interns earn academic credit toward their degrees and, in some cases, financial support from the participating agencies or firms. Beyond these considerations, internships offer the fringe benefits of realistic on-the-job experience and personal contacts in agencies and firms so that they often serve as the bridge to careers after graduation.

Internship instruction will be provided by agency or industry personnel in close cooperation with faculty in the student's major department. The student's interests and requests will be considered in internship assignments and placements, but the final decisions will be made by the departmental faculty in cooperation with the participating agency or firm.

In many majors and career-oriented concentrations, an internship is required as a part of the course of study; in others, the internship is available as an elective. By using the departmental course numbers 4900, 5900, and 6900, official internship programs are listed in anthropology, community planning and geography, English, history, physics & astronomy, political science and criminal justice, psychology, sociology, and Appalachian Studies. Computer science (in mathematics) uses CS 3470 (current computer use) to provide work experience which contributes to the student's academic background in the computer field. Other departments have used more informal arrangements (independent study courses) to provide academic credit for internship experience.

Students seeking further information should contact the office of the College of Arts and Sciences (201 I.G. Greer), their major advisor, or their departmental chairperson.

Preprofessional Programs

Appalachian State University provides students with preparation for professional training in other institutions. Some preprofessional programs (law, medicine, dentistry and theology) are four year programs and lead to a B.A. or B.S. degree from Appalachian; others (engineering, forestry, nursing and pharmacy) are two years and prepare for pursuit of a degree to be granted by the professional school.

Whatever program students select, they are urged to consult professional school catalogs and to work closely with the appropriate advisors at Appalachian.

Law

Law schools require a bachelor's degree (B.A. or B.S.) but, in most cases, no specific selection of courses. Advisors can help students plan a curriculum most likely to prepare them for study of law. Usually students do not specialize during a regular law school program, but are expected to establish a solid foundation of legal knowledge upon which they may build a special practice. Academic areas with materials especially relevant to the study of law are business, communication arts, criminal justice, economics, history, philosophy, political science, psychology and sociology.

However, students may wish to pursue a general studies degree. Besides aiding in the selection of a curriculum, pre-law students are encouraged to participate in the forensics program as part of the extracurricular activity. Advisors: Dr. Richter Moore, Department of Political Science/Criminal Justice; Dr. George Antone, Department of History; Dr. Terry Cole, Department of Communication.

Theology

Most seminaries now require a bachelor's degree (B.A. or B.S.), but in most cases no specific selection of courses. In working with their advisor at Appalachian, students can develop a curriculum suited to the seminary and specialty of their choice. Pre-theological students should be aware of the increasing variety of church-related professions available to them.

In general, the pre-theological student is advised not to overload in religion courses but rather seek to understand the phenomenon of man from as many perspectives as possible. This may mean developing a general studies degree curriculum although a number of traditional majors offer a solid background for seminary. Advisors: Dr. James W. Stines, Department of Philosophy and Religion; Dr. Larry Bond, Department of History.

Medicine and Dentistry

All medical and dental schools require at least three years of satisfactory undergraduate work and most give preference to candidates holding a bachelor's degree. The catalog from the school selected should be consulted and an individual program designed with the help of an advisor to prepare the student for both specific admission requirements and the Medical School Admission Test. In general, solid work in the humanities plus a core of courses such as the following are recommended:

MAT 1110-1120; 2130, STT 3810
CHE 1101-1102, 2201-2202, 2210, 3301
BIO 3300, 3314
PHY 1103-1104 or PHY 1150-1151
PSY 1200

Students should begin taking chemistry during the freshman year. Medical and dental schools will look at the overall quality of performance, not just achievement in science. Interested students should contact Dr. J. Kenneth Shull, Department of Biology.

Engineering

The Department of Physics and Astronomy offers a pre-engineering program and advises students who are interested in engineering. North Carolina State University in Raleigh has provided the following guidelines for students planning to transfer there:

North Carolina State will accept transfer students from Appalachian who have completed at least 28 semester hours with at least a 2.80 average. They do not consider SAT scores for transfers—only the quality of work done at Appalachian.

In addition to the required science and mathematics courses the student should take an economics course, a history course, and a literature course.

Essential courses:

MAT 1110, 1120, 2130 and 3130
PHY 1150 and 1151
CHE 1101 and 1102
TEC 1001
ENG 1000 and 1100

Highly recommended courses:

PHY 2010 and 2020
CS 1400 or 1440
ECO 2030 and 2040
P&R 3600

NOTE: If planning to transfer to a school other than North Carolina State, the student should request that the school send information on specific requirements. Advisor: Dr. Gordon Lindsay, Department of Physics and Astronomy.

The pre-engineering program has been approved by the Subcommittee on Engineering Transfer for transfer to the engineering programs at North Carolina A & T State University, North Carolina State University, and the University of North Carolina at Charlotte.

Cooperative Programs at Appalachian

Medical Technology

A major in biology leading to the Bachelor of Science degree in medical technology consists of a minimum of 90 semester hours of work at Appalachian and 32 semester hours of work at an affiliated medical technology school. The 90 semester hours at Appalachian include 40-44 semester hours in general education; 26 semester hours in biology, including BIO 1110, 2000, 2001, 3300, 3301, 3306, 3308; 16 semester hours in chemistry, CHE 1101-1102, 2201-2202; and MAT 1025 and STT 3810. Courses taken at an affiliated medical technology school include clinical chemistry (nine semester hours), clinical microbiology (10 semester hours), clinical microscopy (nine semester hours), and blood banking (four semester hours). Appalachian has affiliations with schools of medical technology at Baptist and Forsythe Hospitals in Winston-Salem, N.C., and with Memorial and Presbyterian in Charlotte, N.C., and Moses Cone Hospital in Greensboro, N.C. Only a limited number of qualified applicants are accepted into the clinical year of this program and the com-

petition is keen. Applicants are selected on basis of grade point average, course selection and work experience. Advisor: Dr. Jeffrey A. Butts, Department of Biology.

Dual-Degree Engineering Program with Auburn University

A dual-degree program offered in cooperation with Auburn University permits students to attend Appalachian for three years and Auburn University for two years. This three-two program results in two college degrees.

Study during the first three years would include course work in mathematics and the sciences and also courses chosen to meet Appalachian's general education requirements. During the last two years, the student is involved in course work in one of the engineering disciplines at Auburn University.

Upon completion of this three-two program, the graduate is awarded a baccalaureate degree from Appalachian and an engineering bachelor's degree from Auburn. The dual-degree program also contains a provision enabling highly qualified students to obtain a Master's Degree in engineering after obtaining the liberal arts undergraduate degree.

Dual-degree candidates from Appalachian are eligible to seek bachelors degrees from Auburn University in aerospace engineering, aviation management, chemical engineering, civil engineering, electrical engineering, industrial engineering, materials engineering, mechanical engineering, textile chemistry, textile engineering and textile management.

For additional information, contact Dr. Donald W. Sink, Dean of the College of Arts and Sciences.

Forest Resources

In cooperation with North Carolina State University, Appalachian offers the first two years of programs leading to bachelor degrees in forestry and other related areas.

In general, students should take:
ENG 1000-1100
MAT 1020-1110-1120
CHE 1101-1102
BIO 1110 and/or 2000-2205
PHY 1103-1104
COM 2101
ECO 1010 or 2040
PE (four hours)
Humanities and social sciences (12 hours)
Electives (six hours)

Students in conservation or recreation resources administration are required to complete only the first course in analytic geometry and calculus (1110).

Students planning to enroll in pulp and paper science and technology should complete two years of chemistry. Advisor: Dr. John Bond, Department of Biology.

Nursing

Students who wish to pursue a B.S. in nursing may complete up to 64 hours of requirements for most nursing programs at Appalachian and then transfer to an institution that offers the B.S.N. The pre-nursing advisor maintains current information on several programs in the state, and will assist with obtaining information on other programs and with helping students transfer. In order to make the transition as easy as possible, students are encouraged to discuss the possible programs as soon as they begin considering nursing as a major. Advisor: David Smith, General College, 262-2167.

Pharmacy

The School of Pharmacy at UNC-Chapel Hill or Campbell University accept those students who have completed two years of college, including the following specific courses:

ENG 1000-1100
CHE 1101, 1102, 2201, and 2202 (2210 highly recommended)
MAT, (8 hours) including MAT 1110
BIO 1110, 3314
ECO 2030
PHY 1103-1104
General education perspective courses (12 hours) including HIS 1101
Two hours of physical education
Foreign language (9-12 hours)

A minimum of 62 hours exclusive of physical education activity courses is required for admission to the program. Students must apply by December 1 of each year. Applicants will be evaluated on the basis of prepharmacy course-work (quality of academic performance), College Board Exam, PCAT Scores, Science Index, personal qualifications, and an interview.

Early contact with the advisor is strongly recommended. Advisor: Dr. Lawrence Brown, Department of Chemistry.

Interdisciplinary Minors

Appalachian Studies

The Appalachian studies minor is offered for the student who wishes to explore Appalachian regional concerns, and to understand Appalachian social, cultural, and environmental issues in the appropriate interdisciplinary context.

Curriculum offerings, projects, and research relating to the Appalachian region are coordinated by the director of the Center for Appalachian Studies. The Center facilitates individual research projects, and will direct the student toward involvement with research or project activities.

A student may earn an undergraduate minor in Appalachian studies by successful completion of an interdisciplinary program of 18 semester hours. Each student must take the 12 hour core listed below and six additional hours:

1. Core

ANT 4120.	Appalachian Culture	3 s.h.
HIS 3726.	History of the Appalachian Region	3 s.h.
P&R 4549.	Seminar: Southern Appalachian Religion	3 s.h.
PLN 3530.	Selected Topics: Planning in Appalachia	3 s.h.

2. Electives:

BIO 5512.	Local Flora	3 s.h.
PSY 3530.	Selected Topics: Southern Appalachian Personality	3 s.h.
PS 3530.	Selected Topics: Appalachian Politics	3 s.h.
ENG 3530.	Selected Topics: Southern Appalachian Literature	3 s.h.
FDN 4810.	Education in Appalachian America	3 s.h.
AS 3500, 3530		1-3 s.h.

3. Other electives may be chosen upon approval of the director.

Black Studies

The Black studies minor is offered as a start in meeting the needs of black students who seek to explore their heritage and non-black students who want to understand something of the black experience. The curriculum draws on a holding of nearly 2,000 books and periodicals in Belk Library and presently includes 28 semester hours of offerings. The minor will consist of 16 semester hours chosen from among the 28. Other courses deemed relevant by the student may count toward the minor upon approval from the dean of the General College.

Courses approved for the minor include: ANT 3530 (Selected Topics); ENG 2120 (Black Literature); HIS 2421, 2422 (History of Africa); HIS 3230 (Recent U.S. History); HIS 3720 (History of the South); P&R 2030 (Islam); PS 4540 (Regional Political Patterns: Government and Politics of Africa South of the Sahara); SOC 4560 (Race and Minority Relations); Independent Study (up to four hours for credit toward minor).

Gerontology

A.M. Denton, Jr., Coordinator

A student may earn a minor in gerontology by successful completion of an interdisciplinary program of 15-18 hours.

1. Required courses

SOC 3100 - Gerontology	3 s.h.
BIO 4563 - Biology of Aging	3 s.h.
PSY 4562 - Psychology of Aging	3 s.h.

2. Electives

HEC 4551 - Families in Later Life	3 s.h.
SW 4700 - Death and Dying	3 s.h.
LS 4560 - Leisure and Aging	3 s.h.

3. Other electives will be added. Students choosing this minor will need to check with the coordinator in order to receive more information.

Sustainable Development

A minor in sustainable development consists of 18 semester hours. Of these, nine are required and nine are elective courses. The required courses are TEC 3029, Society and Technology; ANT 4570, Sustainable Development in the Modern World System; and one approved practical course. The elective courses are to be chosen in consultation with the sustainable development advisor.

For other interdisciplinary minors in area studies and women's studies, see the listings under the Department of Interdisciplinary Studies.

Department of Anthropology (ANT)

Patricia D. Beaver, Chairperson

The Department of Anthropology is committed to a comparative and holistic approach to the study of the human experience. The anthropological perspective provides a broad understanding of the origins as well as the meaning of physical and cultural diversity in the world—past, present, and future. As such, the program in anthropology offers the opportunity for understanding world affairs and problems within the total context of the human experience and for constructing solutions to world problems which are firmly grounded in that context. Specifically, the department offers: (1) students of all disciplines the opportunity to deepen and broaden their knowledge of humankind and of themselves; (2) a strong preparation for graduate study in anthropology; and (3) an academic and practical background for those who wish to apply the anthropological perspective in a wide range of professional careers, such as social services, education, and archeology.

A major in anthropology leading to the Bachelor of Arts degree consists of 36 semester hours including ANT 1215, 1230, 3410, 4425, 4550; a choice of ANT 1220, 2235 or 3335; and 18 semester hours of electives. In addition, STT 3810 is strongly recommended. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education. A candidate for the Bachelor of Arts degree may count **NOT** more than a total of 40 hours above general education requirements in anthropology.

A major in anthropology leading to the Bachelor of Arts degree with a concentration in applied anthropology consists of 36 semester hours including ANT 1215, 1230, 3410, 3550, 4425, 4550, 4900; a choice of ANT 1220, 2235, or 3335; other optional courses relevant to the internship experience selected in consultation with a faculty mentor and approved by the department chairperson, and the remaining semester hours in electives. In addition, STT 3810 is strongly recommended. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education. A candidate for the Bachelor of Arts degree may count **NOT** more than a total of 40 hours above general education requirements in anthropology.

A major in anthropology leading to the Bachelor of Science (non-teaching) degree with an anthropology career orientation consists of a minimum of 60 semester hours. This includes:

1. Core courses in anthropology consisting of ANT 1215, 1230, 3410, 4425, 4550; a choice of ANT 1220, 2235, or 3335; and 12 semester hours of electives in anthropology.
2. A minimum of 30 semester hours in a career-oriented group of courses selected from several departments and disciplines. Core courses will be specified for each group with electives chosen with the consent of the advisor. Some suggested groups are public/historical archeology and applied cultural anthropology. Statistics 3810 is required.

Students must have written permission from the department chairperson prior to declaring this major.

For the curriculum for a major in social science with concentration in anthropology leading to the Bachelor of Science degree and teacher certification, refer to index. MAT 1020 should be the course to fulfill the mathematics requirement in general education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

A minor in anthropology consists of 18 semester hours in anthropology selected in consultation with the department advisor.

The Department of Anthropology offers honors courses at all levels (ANT 1510, 2510, 3510, 4510) which are open to all students who have distinguished themselves. Students who successfully complete six hours of honors courses and have earned at least a 3.45 GPA in anthropology are eligible to take ANT 4510, Senior Honors Thesis. Students who complete nine hours of honors work, including ANT 4510, with a B average or better will graduate with "honors in anthropology."

Courses of instruction in anthropology

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

ANTHROPOLOGY HONORS (ANT)

1510. Freshman Honors Colloquium/(3).F;S.
Study of selected topics in general anthropology. Enrollment by invitation of the department or by application.

2510. Sophomore Honors Colloquium/(3).On Demand.
Study of selected topic(s) in anthropology, encouraging independent scholarship through reading, writing and discussion. Enrollment is by invitation or application.

3510. Juniors Honors Colloquium/(C).On Demand.
Seminar on a selected topic in anthropology. Enrollment is by invitation of the department, or by application.

4510. Senior Honors Thesis/(3).F;S.
Independent study and research, directed by a Department of Anthropology faculty member and evaluated by a department committee. Prerequisites: successful completion of 6 hours Anthropology honors courses, a 3.45 GPA in Anthropology and approval of thesis topic by departmental honors committee.

ANTHROPOLOGY (ANT)

1215. Cultural Anthropology/(3).F;S.
A cross-cultural study of the variety of human cultures, past and present, including the interrelationships between social, economic, political, and religious systems. The course is designed to develop an understanding of cultural differences so that the student may develop a deeper understanding of his or her own life, of the contemporary world, and of the applicability of cultural understanding to the

solution of human and social problems. Required for majors.

1220. Introduction to Archeology /(3).F;S.
An overview of the work of archeologists. Archeology is presented as a study of the relationship between objects and modern human behavior. ANT 1220, 2235 or 3335 is required for majors.

1230. Physical Anthropology/(3).F.
The study of the biological aspects of human beings including human evolution, primate behavior and anatomy as they relate to humans, physical variation in modern humans, and physical adaptations to environment in modern humans. Required for majors.

2200. Archeological Laboratory Methods/(3).S.
An introduction to laboratory methods for archeological ceramics, lithics, bones and soil samples. Cataloguing, site forms and several advanced analytical techniques are introduced as well. Lecture two hours, laboratory two hours.

2235. North American Archeology/(3).F.
A general survey of lifeways in North America before white contact as known through archeological information. Basic archeological concepts and a brief discussion of the history of North American archeology will be presented. Topical emphases include the prehistory of Alaska, the Northwest Coast, the Southwest, Plains, Great Basin, Mid-west, and the Eastern United States. This course logically precedes ANT 2400, North American Indians. ANT 1220, 2235 or 3335 is required for majors.

2400. North American Indians/(3).F;S.
An ethnographic survey of the American Indian cultures from northern Mexico to the Arctic. Also the modern Indian condition is considered.

2500. Independent Study/(1-4).F;S.

2600. Southwest Field Experience/(3).S.
Southwest Field Experience includes an eleven day field trip to study the anthropology of the southwestern United States. This includes visiting the Hopi, Zuni and Navaho reservations where we observe the living Indian people. Also we visit several important archeological sites which represent the ancestors of the above tribes. A minimum of six weeks of three hour preparatory classes are required prior to the trip.

3100. China in Context/(3).S.
An overview of current social and cultural themes in contemporary China, set in context of the rich Confucian legacy and radical changes initiated by the revolution.

3305. Forensic Anthropology/(3).S.
Forensic anthropology is the application of anthropological techniques to solving criminal cases. Instruction will be given in the application of archeological techniques to crime scene investigation and removal of physical evidence from that scene. The major thrust of the course, however, is the study of human physical remains in order to provide a positive identification of the victim. This includes determination of the sex, age, race, stature, and other identifying characteristics of the subject. The class will consist of thirty hours of lecture and thirty hours of laboratory instruction for the semester. (Same as CJ 3305.)

3335. World Archeology/(3).S.
A comparative and evolutionary study of the development of world cultures from the earliest forms of fossil humans through early state level organization. The course will emphasize Old World cultures in Europe, Africa, Russia, India, and China. New World cultural evolution will be more generalized, beginning with the population of the New World and ending with the development of states. Alternate years. ANT 1220, 2235 or 3335 is required for majors.

3410. Methods in Anthropology/(3).S.
Provides instruction in basic methods and techniques necessary for archeological and ethnographic research. Topics include sampling, surveys and questionnaires, interviewing techniques, participant-observation, elementary statistics, computer analysis (with emphasis on SPSS), and proposal writing. Required for majors.

3420. Women in Cross-Cultural Perspective/(3).F.
A consideration of the biological and sociocultural bases for sex roles and the effect of modernization and culture change on women's status. Specific topics include: politics; the supernatural, ritual and belief systems; and revolutionary change in communal/socialist societies. Offered odd-numbered years.

3430. Magic, Witchcraft and Religion/(3).F;S.
A cross-cultural study of the nature and functions of belief systems. Emphasis is placed on understanding the belief systems of non-Western cultures in order to provide a means through which our own beliefs can be better understood. A variety of anthropological, psychological, and parapsychological approaches to the study of belief systems are utilized.

3500. Independent Study/(1-4). F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation

in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.
An opportunity to study a special topic or combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

3550. Applied Anthropology/(3).S.
This course will provide a survey of the subfields of applied anthropology, particularly urban and medical anthropology and community development, a review of the methods used in policy research, and discussion of the guides for ethical practice of applied anthropology. Students will be provided an introduction to local agencies and applied anthropologists during the course.

4110. Meso American Archeology/(3). On Demand.
The prehistory of Mexico, Guatemala and Honduras is covered from the earliest Paleo Indian up to the conquest of Mexico by the Spaniards in the 16th Century. Emphasis is placed on the continuity of cultures from the Teotihuacanos to the Aztecs in central Mexico and from the Olmec to the Mayans in the southern and eastern portions of the area. Alternate years.

4120. Appalachian Culture/(3).F.
A cultural survey of rural and urban Appalachia. A brief history of the region is followed by a discussion of the contemporary social, economic, political, and cultural characteristics of the people. The impact of processes of change, including migration, urbanization, industrialization, and resource exploitation, are explored.

4130. Meso American Ethnology/(3).S.
An integrated study of society and culture in Meso America (Mexico, Guatemala, Honduras), including prehistorical and historical background and an analysis of contemporary values, social structure, economic forms, politics, and religion. Contemporary issues which face this region and bear on its relationship to the world are discussed. Alternate years.

4210. Ethnographic Field School/(2-6).On Demand.
Students will be immersed in a particular cultural context and learn to use standard ethnographic techniques to analyze and interpret the culture. Each student will live in a local community, participating in its daily activities. There will be instruction in the use of qualitative methods, such as observation, mapping, genealogies and life histories, formal interviewing, and cultural domain analysis. A research paper on a topic selected in consultation with the instructor will be required. Prerequisite: ANT 1215 or permission of instructor.

4402. Archeological Method and Theory/(3).S.
An in-depth presentation of theoretical approaches and concepts in North American archeology. The history of North American archeology will be discussed briefly. Course emphasis includes methods of data analysis and interpretation, survey and excavation methodology related to hypothesis testing, and overview of sampling and quantitative methodology, and cultural resource management. Alternate years. Prerequisites: ANT 2235 or 3335. Recommended corequisite: ANT 3410.

4425. History of Anthropological Ideas/(3).F.
A critical examination of the most influential ideas and theories in anthropology from the 19th century to contemporary theoretical schools, viewed in historical context. Changing conceptions of research strategies, research questions, and modes of explanation, as they relate to developing ideas about the nature of anthropology and human culture are explored. Required for majors.

4445. Field School in Archeological Techniques/(3-6).SS.
An introduction to the techniques of recovery of archeological data, including training in such skills as surveying, controlled surface collection, excavation and processing and preservation of artifacts. This course is taught on an archeological site.

Senior/Graduate Courses

4550. Senior Seminar in Anthropology/(3).S.
An opportunity for upper level students to reflect upon the anthropological perspective and to contemplate and articulate their own image of anthropology. Diverse issues ranging from the consideration of ethics to the examination of career opportunities to reflections upon the overall meaning of anthropology will be discussed. Designed as a final on-campus opportunity for students to systematically reflect upon their vision of the anthropological enterprise and to integrate their experience in anthropology in relationship to their future goals. Ideally should be taken during the final semester of on-campus study. Required for majors. Prerequisite: senior standing or approval of instructor.

4565. Peasantry, World Systems, and Social Change/(3).S.
Descriptive and theoretical analysis of Third and Fourth World peasantry in the context of world economic and political systems, the emerging nonaligned nation states, and industrialization and urbanization. Alternate years.

4570. Sustainable Development in the Modern World System/(3).S.
This course examines the political economy and cultural ecology of global economic development. It assesses the differing social and material impacts for the peoples of core and peripheral world regions. Students design or assess a sustainable development program in a selected local-regional setting. Required for the sustainable development minor.

4600. Medical Anthropology/(3).F.
A cross-cultural investigation of concepts of physical and mental health and illness and the treatment of disease. Topics include: shamanism and faith healing, folk psychiatry, witchcraft as cause/cure, folk diseases and folk medicine, and alternatives to Western scientific medicine.

4650. Anthropology of Education/(3). On Demand.
An examination of formal and informal education within the context of human culture. Emphasis is placed on achieving a cross-cultural understanding of education and educational issues through a study of education in other cultures, minority education, formal and informal educational systems, and the cultural context of the classroom and school. Alternate years.

4700. Historical Archeology/(3).On Demand.
The study of America since the late 16th century as known through its material culture. This course focuses on the different types of sites (domestic, military, industrial) and how they have been studied by archeologists in order to create a more complete picture of past American lifeways. Also emphasized is the identification, analysis, and preservation of artifacts plus issues such as Native American contact, ethnicity, adaptive strategies and socio-economic status recognition. Alternate years.

4750. Archeological Site Reporting/(3).S.
Students will utilize their experience and knowledge gained in other archeology courses to analyze and interpret an excavated site. Each student will author a section of the site report which will normally be published. Prerequisites: ANT 2200 and 4445.

4900. Field Experience: Internship/(3-6). On Demand.
Graded on S/U basis only.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Biology (BIO)

Jeffrey A. Butts, Chairperson

The primary mission of the Department of Biology is to provide the student with a well-balanced background in the life sciences. A student majoring in biology will examine the characteristics of life at all levels, from the workings of a single cell to the dynamics of an ecosystem. In addition to providing the student with a broad understanding of and appreciation for life and its processes, the curriculum is designed to prepare students for careers in biology or for studies at the graduate level. To meet these objectives the department has established the degree concentrations listed below, each with a somewhat different focus within the discipline.

All biology majors are required to take the **core curriculum**. Additionally, they must complete the set of courses indicated below in the **degree** they select as the one most suited to their educational needs.

Core Curriculum

The core curriculum consists of BIO 1110; 2000; and 2001. Students completing BIO 1101-1102 before becoming biology majors will be allowed to substitute those courses for BIO 1110 in the core. It is required that students complete the core prior to beginning the degree.

Degree Concentrations

Bachelor of Arts

This is the most flexible program in the Department of Biology. It is designed for highly-directed students who wish to focus on disciplines not addressed by the other degree concentrations. Students in this program are required to have an advising committee which is responsible for approving the final program of studies. The committee should be composed of the departmental chairperson (or his/her designate) plus one or two faculty members selected by the student.

In addition to the core, students pursuing the B.A. degree must complete 18 s.h. in biology. While no specific courses are required, it is suggested that at least one course be selected from each of the following areas: a) cellular or subcellular biology, b) anatomy or physiology, c) evolution or ecology, and d) systematic or field biology. The following cognate courses are also required: CHE 1101-1102; 2201-2202; PHY 1103-1104; MAT 1110; STT 3810. Students pursuing the B.A. degree must also select a minor and complete foreign language requirements as listed elsewhere in the *General Bulletin*. Students will complete a minimum of 128 s.h. for this degree.

Bachelor of Science (preprofessional)

In addition to the general objectives of the department, this concentration is designed to prepare students for successful admission into professional schools or to continue their studies in graduate health-care programs.

In addition to the core, the Bachelor of Science (preprofessional) requires a minimum of 128 s.h. and completion of the following: BIO 3300; 3301; 3302 or 3312 or 3436; 3304 or 3456 or 4552 or 4556; 3306; 3307; 3308; 3309; 3314; 4570; CHE 1101-1102; 2201-2202; 2210 or 4580-4581; PHY 1103-1104; MAT 1110; STT 3810; one course in computer science; 3 s.h. of electives in the sciences; and 8 s.h. of electives outside of the sciences.

Bachelor of Science (naturalist)

In addition to the general objectives of the department, this concentration is designed to prepare students for careers or graduate programs in organismal biology, environmental studies or related disciplines (e.g. forestry, wildlife biology, environmental health, etc.).

In addition to the core, the Bachelor of Science (naturalist) requires a minimum of 128 s.h. and completion of the following: BIO 2205, 3301 or 4555; 3302; 3304; 3306 or 3308; 3314; 3436; 3456; 4556 or 4566; any four from among BIO 4551, 4552, 4557, 4559, 4560, 4601; 3 s.h. of biology electives; CHE 1101-1102; 2201 or 2210; MAT 1110; STT 3810; ECO 2030; GHY 1010 or 3100; GLY 1101 or 1102.

Bachelor of Science (teaching)

In addition to the general objectives of the department, this concentration is designed for students intending to pursue careers in teaching. Successful completion of this degree provides the student with a North Carolina teacher certification in secondary science. Students will meet the State Department of Public Instruction requirements to teach biology full-time in grades 9-12 and to teach chemistry and/or physical science half-time

in grades 9-12. Students who select one additional elective course in physics will also meet the requirements necessary to teach physics half-time.

In addition to the core, the Bachelor of Science (teaching) requires a minimum of 128 s.h. and completion of the following: BIO 3300 or 3308; 3301 or 4555; 3302 or 3312 or 3436; 3306; 3307; 3314 or 3456; 3520; 6 hours of electives which must include one plant biology and one organismal biology course (see advisor); CHE 1101-1102; 2201; MAT 1110; STT 3810; PHY 1103-1104; plus approximately 30 s.h. of course work required by the College of Education for teacher certification. The student should consult the requirements for certification listed under the Department of Curriculum and Instruction.

Bachelor of Science (medical technology)

In addition to the general objectives of the department, this concentration is designed to prepare students for affiliated programs in medical technology.

In addition to the core, the Bachelor of Science (medical technology) requires a minimum of 122 s.h. and completion of the following: BIO 3300; 3301; 3306; 3308; 4568; CHE 1101-1102; CHE 2201-2202; MAT 1025; STT 3810; and 32 s.h. in the clinical phase of the program which will be provided at an affiliated school of medical technology. The student should secure catalogs from these schools for descriptions of their programs.

Biology Minor

A minor in biology consists of a minimum of 14 semester hours taken in courses numbered 2000 and above.

The Department of Biology offers a Master of Arts degree with concentrations in secondary school teaching, community, junior and technical teaching, a Master of Science degree, and the Specialist in Science degree. Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Biology and General Science

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

BIOLOGY (BIO)

1101-1102. Introduction to Life Science/ (3-3).F;S;SS.
A survey of living organisms and their relationship to each other and to their environment. Study of topics from morphology, physiology, embryology, and genetics with particular reference to man and healthful living. Lecture two hours, laboratory two hours.

1110. Concepts of Biology/(4).F;S.
Important concepts of modern biological science. Designed for Science majors. First course for biology majors. Prerequisite: one year of high school biology. Lecture three hours, laboratory three hours.

UNLESS NOTED BY AN ASTERISK, BIO 1101-1102 OR BIO 1110 ARE PREREQUISITE FOR ALL COURSES NUMBERED 2000 AND ABOVE.

2000. Introduction to Botany/(4).F.
Survey of the major topics in plant biology including physiology, morphology, ecology, evolution, aspects of plant diversity and water relations in plants. Lecture three hours, laboratory three hours.

2001. Introduction to Zoology/(4).S.
Integrated and phylogenetic study of the animal kingdom. The basic biological problems facing animals will be considered in the context of morphology and evolutionary history. Lecture three hours, laboratory three hours.

ALL BIOLOGY MAJORS MUST COMPLETE BIO 1110 OR BIO 1101-1102; BIO 2000 AND 2001 BEFORE TAKING ANY OTHER BIOLOGY COURSE FOR THE MAJOR.

2205. Survey of the Plant Kingdom/(3).S.
A phylogenetic approach to the reproduction, anatomy, and morphology of representative plants from each division. Prerequisite: BIO 2000. Lecture two hours, laboratory two hours.

2500. Independent Study/(1-4).F;S;SS.

3300. Molecular Biology/(3).F;S.
A study of the fundamental cellular processes to include: review of the structure of carbohydrates, lipids, proteins and nucleic acids, DNA replication, protein synthesis, enzyme kinetics, respiration and photosynthesis. Prerequisites: one semester of organic chemistry or permission of the instructor. Lecture two hours, laboratory three hours.

3301. Animal Physiology/(4).F;S.
A study of the fundamental principles of animal physiology with an emphasis on function. Prerequisite: BIO 2001 and one semester of organic chemistry. Lecture three hours, laboratory three hours.

3302. Ecology/(3).F.
Principles of ecology, energy flow, adaptations, association, succession, abiotic factors, economic aspects, and distribution of organisms. Prerequisites: Field projects are required. Lecture two hours, laboratory two hours.

3304. Systematic Botany/(3).F;S.
The general principles of the taxonomy of the vascular plants utilizing elements of the local flora as laboratory material in the consideration of identification, nomenclature, classification, and evolutionary mechanism.Prerequisite: BIO 2205. Lecture two hours, laboratory two hours.

3306. Genetics/(3).F;S.
A study of principles of variation and heredity governing plants and animals with special reference to man. Prerequisites: 12 hours in biology and successful completion of one semester of organic chemistry or permission of the instructor.

3307. Genetics Laboratory/(1).S.
Laboratory investigations of genetic systems in plants and animals. Prerequisite or corequisite: BIO 3306. Laboratory three hours.

3308. Bacteriology/(4).F;S;SS.
Introduction to microbiology with emphasis on bacteriology, virology and immunology. Surveys the field of microbiology and related techniques with special attention given to host-pathogen relationships and diagnostics. Laboratory exercises are correlated with lecture topics. Prerequisites: CHE 1101-1102. Lecture three hours, laboratory two hours.

3309. Comparative Embryology/(3).S.
A study of gametogenesis, fertilization, and comparative morphology of developing embryos of selected invertebrates and chordates. Lectures emphasize evolutionary relationships among the chordates as revealed by embryology and theories concerned with the control of differentiation. Laboratories stress the structural changes that occur during the development of representatives of the major chordate taxa. Lecture two hours, laboratory two hours.

3310. Marine Biology/(3).F.(Alternate Years).
Introduction to the more common marine organisms, including morphology, physiology, taxonomy, ecology, and economic aspects. Lecture two hours, laboratory two hours.

3312. Environmental Studies/(3).S.
An in-depth study of environmental problems from a systems/ecological perspective, with emphasis on the scientific basis of the problems and possible solutions. Topics to be covered include population growth; mineral, water and wildlife resources; energy resources; waste and pollution. Lecture three hours.

3314. Comparative Vertebrate Zoology/(3).S.
The origin, evolution, anatomy, physiology, taxonomy, and natural history of the vertebrates. Lecture two hours, laboratory two hours.

***3318. Outdoor Recreation: An Ecological and Behavioral Approach/(2).S.**
This course is designed to teach the recreation manager how to better understand the complex interactions between the recreation resource and the human user. Recreation is described and studied as need-fulfilling behavior which can be enhanced by an understanding of the biological entities (flora and fauna) and their ecological relationship.

3436. Introduction to Evolutionary Biology/(3).S.
An introduction to the study of evolution including a summary of the stratigraphic record, an historical summary of the earth and its major floral and faunal groups, a review of major contributions to evolutionary theory, and a summary of the factors thought to cause evolutionary change. Lecture three hours.

3456. Invertebrate Zoology/(3).F.
The taxonomy, morphology, and physiology of the invertebrates. Lecture two hours, laboratory two hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of the biology students seeking the B.S. degree and teacher certification in science education.

3530-3549. Selected Topics/(1-4).On Demand.

Senior/Graduate Courses

***4550. Nature Study/(3).SS.**
Study of common plants and animals with emphasis on ecology, collecting techniques and identification. Designed for students with limited biology backgrounds. Not open to biology majors for credit.

4551. Ornithology/(3).S;SS.
The morphology, physiology, behavior, ecology and identification of birds. Early morning field trips are required. Extended field trips to a variety of habitats will be arranged. Lecture two hours, laboratory two hours.

4552. Entomology/(3).F;S.
A comparative study of the insects and related arthropods with an emphasis on morphology and systematics. Methods of collection and preservation insects are covered. Lecture two hours, laboratory two hours.

4555. Plant Physiology/(3).S.(Alternate Years).
A study of the basic principles of plant physiology and fundamental processes such as cell properties, water relations, growth, photosynthesis, respiration, and mineral nutrition. Prerequisites: CHE 1101-1102. Lecture two hours, laboratory three hours.

4556. Mycology/(3).F;SS.
An investigation of the fungi with particular reference to the techniques of working with these organisms. Lecture two hours, laboratory two hours.

4557. Ichthyology/(3).F.(Alternating with BIO 5508).
Ecology, distribution, taxonomy and economic importance of fishes. Freshwater fishes will be emphasized. Lecture two hours, lab two hours.

4559. Mammalogy/(3).F.(Alternate Years with BIO 4560).
The natural history, distribution, adaptations, taxonomy and economic importance of mammals. Field trips and visits to zoos will be arranged. Lecture two hours, laboratory two hours.

4560. Herpetology/(3).S.(Alternates with BIO 4559).
The morphology, taxonomy, physiology, and distribution of amphibians and reptiles. Methods of collecting and preserving specimens as well as behavioral aspects of species in their natural habitats will be covered. Field trips will be required. Lecture two hours, laboratory two hours.

4561. Phycology/(3).S.(Alternate Years with BIO 5502).
The morphological and taxonomic investigation of the major phyla of the algae. Methods of collection, isolation and culturing are covered as well as some aspects of algal physiology and ecology. Lecture two hours, laboratory two hours.

4563. Biology of Aging/(3).F.
General study of biological/physiological changes over time in the structure and function of the systems of organisms with emphasis on the human body. Prerequisite: BIO 1101-1102 or equivalent. Lecture three hours.

4564. Electron Microscopy/(3).F.
A study of principles and techniques of biological microscopy. Lectures include discussions on preparative techniques for light and electron microscopy, theoretical considerations of light and electron optics, and the structure and function of cellular organelles. Laboratories examine practical techniques of tissue preparation for microscopy, the effective use of light and electron microscopes, and the interpretation of data obtained in student micrographs. Lecture two hours, laboratory two hours.

4566. Bryology/(3).S.
Taxonomy, morphology, and ecology of the mosses and liverworts. Lecture two hours, laboratory two hours.

4568. Immunology/(4).F.
A study of the immune system with emphasis on cellular interactions involved in the generation of humoral and cell-mediated immune responses. Lec-

ture includes discussions on inflammation, antibody diversity, tissue transplantation, and immunopathologies. Laboratories examine lymphoid tissue organization, lymphocyte function, and antibody-antigen reactions with emphasis on clinical application. Prerequisite or corequisite: BIO 3306. Lecture three hours, laboratory three hours.

4570. Parasitology/(3).S;SS.
A survey of protozoan, helminthic and arthropod parasites with emphasis on causation and prevention of disease. Lecture two hours, laboratory two hours.

4580. Field Biology of Continental U.S.A./(5).SS.
Ecological investigations of major habitats in the U.S. Prerequisites: 16 hours in biology and consent of the instructor.

4590. Biometrics/(2).S.
A descriptive treatment of statistical techniques used in collecting and analyzing data from biological systems. Areas considered are: statistical descriptions of biological systems; design of investigations including hypothesis testing and analysis of variance; analysis of statistical techniques currently used in biological journals; techniques of computer usage, especially "canned" programs like BMDP. Prerequisite: STT 3810 or permission of the instructor.

4591. Applications of Biometrics to Student Research/(1).S.
A laboratory setting for student designing investigations or analyzing data from their research or thesis. Applications of appropriate statistical methods and computer analyses are stressed. Prerequisite or corequisite: BIO 4590. Laboratory two hours.

4601. Animal Behavior-Ethology/(3).F.
Basic principles of animal behavior are approached from an evolutionary perspective. Topics such as instinct, learning, biological clocks, sociobiology, communication and physiological mechanisms of behavior are stressed. Laboratory emphasizes techniques of observing, recording, and analyzing behavior using a research project format. Lecture two hours, laboratory two hours.

4900. Internships in Biology/(1-6).F;S;SS.
Practical biological experiences in federal, state, and local agencies. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

GENERAL SCIENCE (GS)

3500. Independent Study/(1-4).On Demand.

3530-3549. Selected Topics/(1-4).On Demand.

4401. Methods of Elementary School Science/(2).F;S.
A survey of scientific principles, concepts and national curricula taught in elementary schools. Emphasis is placed on the development of materials, demonstrations and "hands on" experiments appropriate for integration into the total curriculum. Lecture one hour, laboratory two hours.

4402. Science Teaching in the Middle School/(2).S.
A study of the implementation techniques for the prospective middle school teacher based upon science principles mastered in the science content courses. Investigative techniques; improvising materials and an emphasis on environmental concerns will be stressed. Lecture one hour, laboratory two hours.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Chemistry (CHE)

Lawrence E. Brown, Chairperson

The objectives of the Department of Chemistry are to prepare students in chemistry for careers in industry, government service, high school and junior college level teaching and for continuing study in chemistry and related areas at the graduate or professional school level.

The department also strives to provide a basic understanding of the principles of chemistry and physical science related to all areas of scientific study and to provide the student with an appreciation for the impact of science and technology in today's society.

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A major in chemistry leading to the Bachelor of Arts degree consists of 32 semester hours above the 1000 level. The required courses are: CHE 2201-2202, 2210, 3000, 3301-3302, 3303, 3304, 3404, 3405, 4000, 4400 and five semester hours elected from other chemistry courses. Chemistry 3520 is not accepted. The chemistry major must take PHY 1150-1151; an additional six to eight hours in either geology, biology (3300, 3301, 3306 and 3308 are recommended); or physics (courses at the 1000 level and 3350 are not accepted); and MAT 1110 and 1120. CHE 4560, Instrumental Methods of Analysis, is strongly recommended for this degree.

The Bachelor of Arts degree as described in the preceding paragraph has been approved by the American Chemical Society's Committee on Professional Training.

A minor in chemistry consists of 12 semester hours above 1000 level chemistry (CHE 2210 recommended).

A major in chemistry leading to the Bachelor of Science degree consists of at least 23 semester hours above the freshman level. The required courses are CHE 2201, 2210, 3000, 3301, 3303, 3404, and seven hours selected from other chemistry courses. The chemistry major must take PHY 1150-1151; an additional six to eight hours in either biology, physics (courses at the 1000 level and 3350 are not accepted), or geology; and MAT 1110 and 1120. The student must select teacher certification or a concentration in another career support area. This concentration must be approved by the department upon entering this degree program. Some concentrations currently available are listed below:

Certified chemist concentration. The required courses, in addition to those listed above, are CHE 2202, 3302, 3304, 3405, 4000, 4400, 4560, and at least 3 s.h. additional work above the 3000 level. Chemistry 3520 is not accepted. A course(s) in computer programming is strongly recommended. This degree has been approved by the American Chemical Society's Committee on Professional Training.

Pre-professional and paramedical concentration. CHE 2202 and 4580 must be selected. The required biology courses are: BIO 1110, 2001, 3301, 3306, 3307, 3308, and 3309; BIO 3314 is recommended. (Appropriate substitutions may be made with the approval of the chairperson.)

Marketing and business concentration. Several options are available, all require ACC 2100 and ECO 2030, plus an additional 12 s.h. The concentration should be developed in consultation with the chairperson of the Department of Chemistry and must be individually approved.

Teacher certification concentration. This concentration is for chemistry majors seeking secondary science certification in chemistry. CHE 3520, Instructional Assistance is required; CHE 4580, Biochemistry I, is recommended. The core requirement of 6-8 hours of additional science courses must be met by completing BIO 1110 and GLY 1101. A person certified in chemistry is eligible to teach full-time in chemistry or physical science (grades 9-12). A person certified in chemistry who has taken at least 12 hours in another science area (biology, geology, or physics) is eligible to teach half-time in that area (grades 9-12).

For information on the professional education requirements, see this catalog under Department of Curriculum and Instruction, secondary education.

Criminal justice concentration. The required courses are: CJ 1100, 2020, 3551 and 3552, and CHE 4560. The remaining six hours should be chosen from: CJ 3150, 3305, 4020, 3060, or 4550.

Other concentrations. Additional concentrations to prepare the chemistry major to pursue other career opportunities may be developed in consultation with the chairperson of the Department of Chemistry and must be individually approved.

All junior and senior students majoring in chemistry are expected to participate in weekly seminar discussion periods each semester in residence.

The department offers a Master of Science in chemistry degree. The Walker College of Business offers a Master of Business Administration (MBA) with an emphasis of study in chemistry. Students interested in the MBA may complete the B.S. in chemistry and MBA prerequisite courses with an emphasis of study in chemistry consists of 24 semester hours of business courses and 16 hours of chemistry including CHE 5050, 5060, 5070 and 5090. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Chemistry and Physical Science

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

CHEMISTRY (CHE)

1101. Introductory Chemistry I/(4).F;S.
A study of the fundamental principles of chemistry emphasizing modern atomic theory, the structure and behavior of atoms, the properties and states of matter, energy relations, periodicity and mole concepts. Laboratory experiments to supplement the study of the listed topics. Lecture three hours, laboratory three hours.

1102. Introductory Chemistry II/(4).F;S.
A study of properties of solutions, acid-base concepts, equilibria, elementary thermodynamics, elementary kinetics, electrochemistry. Laboratory experiments to supplement the study of the listed topics. Lecture three hours, laboratory three hours. Prerequisite: CHE 1101.

2201. Organic Chemistry I/(4).F;S.
A study of the fundamental concepts and basic physical and chemical properties of the major classes of the compounds of carbon. Structure and reaction mechanisms will be introduced in relation to these properties and concepts. Laboratory practice in techniques and class reactions. Prerequisites: CHE 1102. Lecture three hours, laboratory three hours.

2202. Organic Chemistry II/(4).F;S.
An in-depth study of the structure, stereochemistry, and reactions of the major classes of organic compounds. Reaction mechanisms and spectroscopy will be emphasized. Laboratory practice in synthesis, modern separations, practical spectroscopy, and determination of unknowns. Prerequisite: CHE 2201. Lecture three hours, laboratory three hours.

2210. Quantitative Analysis/(4).F;S.
An introduction to analytical chemistry, including equilibria, Beer's law, oxidation-reduction reactions and chromatography; the basic methods of quantitative analysis are introduced and practiced with laboratory unknowns. Prerequisite: CHE 1102. Lecture two hours, laboratory six hours.

2500. Independent Study/(1-4).F;S;SS.

3000. Introduction to Chemical Research/(1).F;S.
An introduction to the techniques and methodology of chemical research. Pre- or corequisite: CHE 2210.

3301-3302. Physical Chemistry I-II/(3-3).F-S.
Physical chemistry I is a detailed treatment of the theories underlying the thermodynamic properties

and behavior of gases, liquids and solids. Phase and chemical equilibria, electro-chemical cells and irreversible processes in solution. Physical chemistry II is a treatment of kinetic molecular theory, kinetics, elementary quantum theory, symmetry and spectroscopy. Prerequisites: CHE 2210, MAT 1120, and a year of physics. Lecture three hours.

3303-3304. Physical Chemistry Laboratory/(1,1).F-S.
Experimental investigations which supplement the study of the topics in physical chemistry. Applications of computer techniques for data reduction and manipulation will be introduced and utilized. 3301 is corequisite or prerequisite for 3303 and 3302 is corequisite or prerequisite for 3304.

3404. Inorganic Chemistry/(3).S.
A detailed study of the elements and their compounds based on atomic structure and periodicity. Chemical bonding as it relates to molecular structure and chemical reactivity. Aqueous and nonaqueous solvent systems, acid-base theories, and the chemistry of complexes. Prerequisite: CHE 2210. Lecture three hours.

3405. Inorganic Chemistry Laboratory/(1).S.
Experimental investigations which supplement the study of inorganic chemistry, involving reactions in inert atmospheres, vacuum systems and hot tubes. Corequisite or prerequisite: CHE 3404. Laboratory three hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all chemistry majors (B.S.) seeking secondary science certification in chemistry.

3530-3549. Selected Topics/(1-4).On Demand.

4000. Chemistry Seminar/(1).F;S.
The presentation and discussion of current chemical topics. Oral and written reports are required. Prerequisite: CHE 3000.

4400. Senior Research/(1).F;S.
A laboratory research project under the supervision of a faculty member. An oral report of the work in progress will be made at the regular seminar and a written report of the results is to be submitted to the chemistry faculty upon completion. Laboratory 4 hours (minimum). Pre- or corequisite: CHE 4000. May be repeated once for credit.

Senior/Graduate Courses

4560. Instrumental Methods of Analysis/(4).F.
A study of some of the modern instrumental methods of analysis including electrochemistry, atomic and molecular spectroscopy, magnetic resonance spectrometry, mass spectrometry and gas chromatography. Prerequisite: CHE 2210. Pre- or corequisite: CHE 3303 or permission of instructor. Lecture three hours, laboratory three hours.

4580. Biochemistry I/(3).F;S.
This course covers the properties of amino acids, proteins, carbohydrates, lipids and nucleic acids and presents a brief introduction to enzymology. Major emphasis is on the chemistry of biological compounds. An introduction to intermediary metabolism is also presented. Prerequisite: CHE 2201. Lecture three hours.

4581. Biochemistry I Laboratory/(1).F;S.
Experimental investigations which supplement the study of the topics in biochemistry. CHE 4580 is corequisite or prerequisite to CHE 4581. Laboratory three hours.

4582. Biochemistry II/(3).S.
This course will cover the intermediary metabolism of amino acids, nucleic acids, carbohydrates and lipids. Metabolic pathways and their associated enzymes are emphasized. Prerequisite: CHE 4580 with CHE 3301 recommended but not required. Lecture three hours.

4590. Spectral Interpretations/(2).F.
A study of the use of spectral data for the identification of organic compounds. Techniques will include UV, IR, NMR, MS, ORD and CD in the identification process. Prerequisite: CHE 2202. Lecture two hours.

4595. NMR Spectroscopy/(2).S.
The lecture portion of the course will cover basic nuclear magnetic resonance spectroscopy theory and practice, with particular attention given to the instrumentation available in the department. The laboratory portion of the course will focus on learning to utilize the NMR instrumentation available in the department. Prerequisite: CHE 4560 or 4590. Lecture one hour, laboratory three hours.

4600. Selected Topics/(1-4).On Demand.
An opportunity to study a special topic or combination of topics not otherwise provided for in the chemistry curriculum. May be repeated for credit when content does not duplicate. Prerequisite: Upper-division status or departmental permission.

4610. History of Chemistry/(3).S.
A study of the development of chemistry as a science with emphasis on the development of basic concepts,

ideas and theories. Prerequisite: a year of introductory chemistry. Lecture three hours.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

PHYSICAL SCIENCE (PHS)

1001. Physical Science/(3).F;S.
A study of selected physical science topics to include systems of measurement, the solar system, motion, energy and energy transformations, fluids, the Kinetic Theory of matter, electricity and magnetism. This course is structured principally to meet the physical science requirements for primary and elementary education majors. Other non-science majors may elect this course to fulfill general education science requirements. Lecture two hours, laboratory two hours.

1002. Physical Science/(3).F;S.
A study of selected physical science topics to include waves and wave behavior, radioactivity and nuclear chemistry, atomic structure, the Periodic Law, chemical bonds and chemical reactions, earth materials, and changes in the earth's crust, the atmosphere and the hydrosphere. This course is structured principally to meet the physical science requirements for primary and elementary education majors. Other non-science majors may elect this course to fulfill general education science requirements. Lecture two hours, laboratory two hours.

Department of English (ENG)

Loyd H. Hilton, Chairperson

The aim of the Department of English is to give students competency in written and oral composition and in the interpretation and appreciation of literature. To this end, all students are required to take, or be exempted from, the freshman English series 1000-1100. (This sequence is prerequisite to all other courses in English.)

A major in English leading to the Bachelor of Arts degree consists of 36 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement. Although no course in English above the freshman level is specifically required, at least 24 hours of the work must be done at the 3000 level or above. Six hours of a foreign language above the elementary course level are required. Upon acceptance as a major, the student must consult an English advisor for help in planning a program of study appropriate to the student's particular needs and objectives. A candidate for the Bachelor of Arts degree may count not more than a total of 40 hours above general education requirements in English.

A minor in English consists of 18 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement.

The Bachelor of Science degree in English, secondary education consists of 40 hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement.

Required courses include nine hours at the 2000 level. At least 28 hours of the work in English must be at the 3000 level or above. Required courses include 3300, 3400, 3520, 3590, 4660; 3610 or 4610; and 4830 or 4840; 3400 is a prerequisite to 3520, 3590, and CI 4900. The student elects 12 hours from an array of 3000- and 4000-level courses. Since teacher certification in English requires a balanced preparation in several areas, each student will be provided information indicating courses appropriate to current state and

professional guideline requirements. Required also for the teaching degree are six hours of a foreign language beyond the elementary course level and RE 4620, as well as the professional education courses and other criteria specified by the Reich College of Education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

To receive further information, the student should report to the English department during the first semester of the sophomore year or, for transfer students, during the first semester at Appalachian. The student is expected to work closely with the English education advisor in fulfilling the degree requirements.

The Department of English offers the academic Master of Arts in English, the Master of Arts in English, education with concentrations in community, junior and technical college teaching and secondary school teaching. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

The Department of English offers an honors program on the freshman, sophomore, junior, and senior levels. In order to remain in the program students must maintain at least a B average in honors work. Students meeting the requirements of the junior-senior honors program (ENG 3510, 3515, and 4510) with a grade of B or better and a 3.45 average in all English course work will graduate with "honors" in English. Those meeting the requirements with a grade of A and a 3.65 average in all English course work will graduate with "high honors" in English. Those meeting the requirements with a grade of A and a 3.85 average in all English course work will graduate with "highest honors" in English.

Overseas Study Program

In keeping with the University's belief that studies and travel abroad contribute to its role as an institution of higher learning, the Department of English each summer offers students an opportunity to study either in England or on the continent, or in some instances a combination of both. The programs are directed by regular faculty members and offer opportunities for both supervised group study and individual investigation. Information is available each fall concerning the specific programs to be offered for undergraduate and graduate credit. Students interested in the possibility of such study should make inquiry at the English office early in the school year.

The University Writing Center offers its services to all members of the university community. The Center's staff is specially trained to help in the completion of virtually any academic writing project, and in the solution of most writing problems. Users of the Center should make appointments for its services or may drop in to see if one of the staff is available. The Center is conveniently located in Sanford 203B. Its telephone number is 262-3144.

English Computer Center. The Department of English provides writers access to AT&T 6300 and IBM PC compatible microcomputers, Commodore 64 microcomputers, dot matrix and daisy wheel printers. In addition, the Center will offer students assistance in using various word processing programs and other software packages.

Courses of Instruction in English

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

ENGLISH HONORS (ENG)

1510. Freshman Honors Seminar/(3).F;S.
Development of individual research and original critical thought; composition. Collateral reading in English, American, or world literature. Members selected by the Department of English.

2510. Sophomore Honors Seminar in English, American, or World Literature/(3).F.
A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application.

2515. Sophomore Honors Seminar in English, American, or World Literature/(3).S.
A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application.

3510. Junior/Senior Honors Seminar/(3).F.
An intensive study of major American authors, genres, or literary movements. By invitation or application.

3515. Junior/Senior Honors Seminar/(3).S.
An intensive study of major world authors, genres, or literary movements. By invitation or application.

4510. Senior Honors Thesis/(3).F;S.
Independent study and research. Honors thesis directed by a member of the Department of English and graded by a departmental committee. Oral examination. Prerequisite: Completion of ENG 3510 and 3515 with at least a B average.

ENGLISH (ENG)

0900. Basic Writing/(3).F;S.
Review of writing process (planning, writing, rewriting) with emphasis on preparing drafts of different kinds of writing. Writing and instruction to improve fluency, clarity and correctness. S/U credit. Course counts as three hours credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (See "Institutional Credit"). Prerequisite for ENG 1000 for designated students.

1000. Expository Writing/(3).F;S.
An introduction to the various types of expository essays. A grade of C or higher in this course fulfills the English proficiency requirement for students entering the College of Education or the College of Business.

1100. Introduction to Literature/(3).F;S.
Interpretation of fiction, poetry and drama. Continued emphasis on writing through literary essays. Prerequisite: ENG 1000.

ENGLISH 1000 AND 1100 ARE PREREQUISITES FOR ALL COURSES WHICH FOLLOW.

2000. Writing for Proficiency/(1).F;S.
Review of the principles of writing for designated transfer students. Requires writing essays in acceptable college prose. Satisfactory completion of this course establishes University proficiency in writing for transfers who enter the College of Education or the College of Business. S/U only.

2010. English Literature/(3).F.
A study of major writers from the beginning of British literature through the eighteenth century.

2020. English Literature/(3).S.
A study of major British writers from the Romantics through the present.

2030. World Literature/(3).F.
Masterpieces of the Western World from the classical period to the Renaissance, in translation.

2040. World Literature/(3).S.
Masterpieces of the Western World, in translation, from the Renaissance to the present.

2100. Modern Studies/(3).F;S.
A study of recent literature. Course content will vary and may concentrate on poetry, fiction, drama, or a combination.

2120. Black Literature/(3).S.
A critical study of the work of outstanding Black writers.

2170. Introduction to Film/(3).F;S.
A critical examination of notable examples of the filmmaker's art from silent movies up to the modern

era, including a variety of film genres and including both American and foreign films.

2310. American Literature/(3).F.
A study of major writers from the beginning of American literature through the Romantics.

2320. American Literature/(3).S.
A study of major American writers from the beginning of realism through the present.

2500. Independent Study/(1-3).F;S;SS.
Independent research on a topic not offered in a scheduled course. Prior to registration, independent studies must be approved by the directing professor, the department chairperson, and the dean of the College of Arts and Sciences.

2530-2549. Selected Topics/(1-4). On Demand.
Content to vary; may be repeated for credit when content does not duplicate.

3100. Business Writing/(3).F;S.
Development of applied writing skills: letters and memoranda, resumes, proposals, analytical and fact-finding reports, and other essential forms of professional communication and research.

3170. Advanced Studies in Film/(3).S.
An examination of the work of a particular film artist, a select group of filmmakers or a specific film genre. A basic knowledge of film history and techniques is expected of students taking the class. Prerequisite: ENG 2170 or permission of instructor.

3300. Applied Grammar/(3).F;S.
A study of the syntax of English as described by traditional grammarians with some attention to usage, the development of proofreading skills, and the descriptive principles of transformational grammar.

3400. Advanced Expository Writing/(3).F;S.
Practice in expository writing, with emphasis on effective style, sound structure, and correct mechanics. This course is a prerequisite to English 3520 and 3590. It is recommended that ENG 3300 be taken prior to this course.

3500. Independent Study/(1-3).F;S;SS.
Directed, concentrated study of a special topic developed by the student.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing and English 3400. May be repeated for a total credit of three semester hours. Required for teaching majors.

3530-3549. Selected Topics/(1-4). On Demand.
Content to vary; may be repeated for credit when content does not duplicate.

3590. Theory and Practice in the Teaching of High School English/(3).F;S.
Theory and practice in the teaching of literature and writing at the secondary level. Prerequisites: ENG 3300 and 3400. It is strongly recommended that all other requirements for certifiction (except student teaching) be completed prior to this course. (Same as CI 3590.)

3610. Studies in the Principles of Language/(3).F;S.
An introduction to theories of language structure, language acquisition, and the functions of language within a cultural setting, with particular emphasis on semantics.

3650. Creative Writing/(3).F.
An introductory course in writing poetry and fiction, specifically the short story, with emphasis on techniques.

3660. Creative Writing/(3).S.
An advanced course in writing. Students may project a novel or work in poetry, drama, or the short story. Prerequisite: ENG 3650.

3710. Studies in Women and Literature/(3).S.
A study of the work of outstanding women writers; course content may vary and may concentrate on poetry, fiction, drama, or non-fiction prose, and associated criticism and theory.

3720. Studies in the Short Story/(3).F.

3740. Studies in Poetry/(3).F.

3750. Studies in Drama/(3).S.

Senior/Graduate Courses

4590. World Literature/(3).F;S.
A study of literary content, theories, and problems of a specific world-epoch.

4610. Modern English Grammar/(3). On Demand.
An examination of the syntactic structures of English as described by structural and transformational grammarians.

4660. History of the English Language/(3).F;S.
A study of national, regional, and social varieties of English with particular attention to phonological, morphological, and cultural development.

4700. Technical Writing/(3).S.
Emphasis on advanced applied professional writing skills: proposals, analytical, fact-finding, and progress reports; and specialized applications such as abstracts, instructions, process descriptions, definitions, and lab reports.

4730. The Novel/(3).S.
A study of selected novels from English, American and world literature.

4760. Literary Criticism/(3).S.
Studies of the classical critics in translation and of the contemporary critics, with emphasis on specific techniques.

4770. Early American Literature/(3).F.
Studies in the works of the founders of American political, religious, and literary culture as reflective of trends in intellectual history.

4780. Nineteenth Century American Literature/(3).S.
Examination of the major authors under whose leadership American literature achieved world prominence.

4790. Twentieth Century American Literature/(3).S.
A study of poetic and prose works most characteristic of modern American literature and thought. Emphasis on major writers.

4800. Colloquium/(1-4). On Demand.
Content to vary; may be repeated for credit when content does not duplicate.

4810. Folklore/(3).S.
A survey of folkloric genres (narrative, drama, song, proverb, riddle, custom, belief, game) with attention to their forms, transmission, and functions in traditional and urban societies.

4820. Early English Literature/(3).F.
An introductory study of medieval English literature and Middle English.

4830. Shakespeare I/(3).F.
A study of Shakespeare's comedies and histories.

4840. Shakespeare II/(3).S.
A study of Shakespeare's tragedies.

4850. Seventeenth Century English Literature/(3).S.
A study of literature written during the seventeenth century in England, with each offering limited to selected works.

4860. Restoration and Eighteenth Century Literature/(3).S.
A study of the literature written in England during the years 1660-1800. Each offering is limited to selected works and authors of the period.

4870. The English Romantic Movement/(3).F.
A study of selected works of Blake, Wordsworth, Coleridge, Southey, Scott and Byron, Shelley, Keats, with some attention to essayists and minor poets of the Romantic Movement.

4880. Literature of the Victorian Period/(3).F.
A study of selected major English poets, novelists, and essayists of the latter part of the nineteenth century.

4890. Twentieth Century British Literature/(3).F.
A study of major themes and literary techniques in twentieth century British literature.

4900. Internship in Writing/Editing/ (1-12). F;S;SS.
On-the-job work experience individually tailored to students' career orientation. Graded S/U.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Foreign Languages and Literatures (FLL)

Hector Romero, Chairperson

The curriculum of the Department of Foreign Languages and Literatures includes courses in French, Spanish, German, Latin, Chinese, Japanese and Russian. The major objective of the department is to teach students to understand, read, write, and speak the foreign

languages. Studies in the culture and the literature of the target languages are designed to give students a better understanding of the traditions, achievements and lifestyles of the countries and areas where the languages are spoken.

All students who wish to enroll in courses taught in French or Spanish on the level of 2000 or above must take proficiency tests. Students whose performance on these tests is not satisfactory will be required to take FRE 1070 or SNH 1070 before taking courses on the 2000 level. This does not apply to courses offered in English, which may count towards the major only under special circumstances and with the consent of the advisor and chairperson.

A major in French leading to the Bachelor of Arts degree consists of 30 semester hours on the 2000 level or above, including FRE 2010 or 3075; 3080 or 4565; 4550 and at least one literature course, one culture and civilization course, and 15 hours of electives in the major, three of which must be at the 4000 level. A major in Spanish leading to the Bachelor of Arts degree consists of 30 semester hours on the 2000 level or above, including SNH 2010 or 3075; 3080 or 4565; 4550 and at least one literature course, one culture and civilization course, and 15 hours of electives in the major, three of which must be at the 4000 level.

A minor in French or Spanish consists of 15 semester hours on the 2000 level or above, including 2010 or 3075; and twelve semester hours of electives in the major.

A minor in German consists of 15 semester hours on the 2000 level or above, including GER 2010 and 12 hours on the 3000 level, but excluding 3520, Instructional Assistance.

A minor in Latin consists of 15 semester hours on the 2000 level or above, excluding LAT 3520, Instructional Assistance.

A major in French leading to the Bachelor of Science degree and K-12 teacher certification consists of a minimum of 30 semester hours on the level of 2000 or above, including FRE 2010 or 3075; 3080 or 4565; 4550 and at least one literature course, one culture and civilization course, and 15 hours of electives in the major, three of which must be on the 4000 level. A major in Spanish leading to the Bachelor of Science degree and K-12 teacher certification consists of a minimum of 30 semester hours on the 2000 level or above, including SNH 2010 or 3075; 3080 or 4565; 4550, and at least one literature course, one culture and civilization course, and 15 hours of electives in the major, three of which must be on the 4000 level. The department recommends that students majoring in French or Spanish use electives to build up a teaching competence in a related field.

For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Department of Foreign Languages and Literatures offers Master of Arts degrees in French and Spanish with concentrations in K-12 teaching and community, junior and technical college teaching (prerequisite to K-12 "G" certification is a K-12 "A" certificate in the second language.). Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

International economics and business options

Areas of study in international economics and business are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in economics. The program is jointly administered by the Department of Economics and the Department of Foreign Languages and Literatures. Students participating in the program have an advisor in each department.

The program combines a major in economics and a major or minor in a foreign language. Students are also advised to pursue a minor in international business.

The various options are as follows:

Bachelor of Arts with a double major in economics and one foreign language (French or Spanish)
Bachelor of Arts in economics with a minor in French, German or Spanish
Bachelor of Science in Business Administration with a major in economics and a minor in French, Spanish or German

Under all three options, the student is expected to demonstrate proficiency in reading and speaking the language selected. At least 15 hours of courses in the language, civilization, and culture of the chosen country or area are recommended at the 2000 level of above. Also students are expected to participate, if possible, in any one or more of the following:

1. Pursue a minor in international business (15 semester hours);
2. Complete a semester or summer session of business study abroad in the country of their choice;
3. Complete an internship abroad (usually 6 hours).

The foreign language laboratory

The Department of Foreign Languages and Literatures has a 27-booth electronic language laboratory where students listen and respond to prerecorded audio tapes that deal with the material covered in their courses. The laboratory is also equipped with television sets and video cassette recorders for video learning. The University's Appalnet communications system provides daily television programming in Spanish and occasional programming in French. The language laboratory is designed and operated to increase the student's contact with the spoken language.

Courses of instruction in foreign languages and literatures

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

CHINESE (CHN)

1010. Beginning Chinese I/(3).F.
Understanding, listening, speaking, reading and writing Chinese. Audiolinqual and video techniques are combined with required recording-listening practice in the language laboratory. Sentence structure and patterns are studied within an accompanying cultural context. No prerequisite. Recitation three hours and required laboratory.

1020. Beginning Chinese II/(3).S.
Development of the basic skills of reading, writing, listening and speaking. Sentence structure and patterns in cultural context. Introduction to Chinese traditional writing system and practice of reading and writing. Prerequisite: CHN 1010 or consent of the instructor. Recitation three hours and required laboratory.

1040. Intermediate Chinese I/(3).F.
Further development of the four language skills and understanding the language in its cultural context. Emphasis on more types of Chinese characters in reading and writing. Prerequisite: CHN 1010 and 1020 or consent of the instructor. Recitation three hours and laboratory.

1050. Intermediate Chinese II/(3).S.
Continued developoment of the four language skills and comprehension of relations between the language and the culture for gratification of student's wants and meeting their needs. Prerequisite: CHN 1040 or consent of the instructor. Recitation three hours and laboratory.

FOREIGN LANGUAGES AND LITERATURES (FL)

COURSES OFFERED IN ENGLISH

2010. Mythology/(3).S.
Examination of the chief Graeco-Roman myths, their influence on artists and writers of western culture, their place as examples of man's mythopoeic tendency. Open to all students. No prior knowledge of Latin required for enrollment.

2050. Introduction to Linguistics/(3).On Demand.
This introduction to linguistics will study sounds, intonation, word formation and their relationship to grammar and meaning. Different theoretical approaches to these issues will be explained. Students will apply linguistic concepts to problems in specific languages. The course will also show how linguistics analyzes dialects and resolves problems of language learning and teaching. Prerequisite: A year of a foreign language or permission of the instructor.

3120. Teaching Foreign Languages/(3).F;S.
A study of methods, instructional strategies, organization and administration for teaching second languages in the K-12 curriculum. Experiences will include development of unit and lesson plans, classroom observations and microteaching. It is strongly advised that other requirements for certification (except student teaching) be completed prior to taking this course. (Same as CI 3120.)

3500. Independent Study/(1-3).F;S.

3530-3549. Selected Topics/(1-4). On Demand.

3550. Survey of Chinese and Japanese Literatures/(3).On Demand.
To examine works of representative masters in various genres from the beginning to early twentieth century, by studying the translation of the works. Class is conducted in English. Prerequisite: ENG 1100.

4010. Afro-Hispanic Literature/(3).On Demand.
A survey of Afro-Hispanic contributions to Spanish and Spanish American Literature in works written by Afro-Hispanic authors. An examination of literary themes on the life and culture of Blacks in Spanish-speaking America in the texts of representative Latin American authors underscoring outstanding historical facts and sociological concepts.

4020. European Languages and Culture Through Films/(3).On Demand.
Comprehensive analysis of European cultures through films, with special emphasis on the historical, political, social, and philosophical representations of life in selected foreign countries in recent decades. Content will vary.

4850. Seminar: Special Topics in Linguistics/(3).On Demand.
Students will examine such problems as verb tense, aspect and transitivity, word formation and word order, pronunciation, and ambiguity and disambiguation. Students will thus learn concepts of linguistics by using them to define and solve a linguistic problem that would otherwise cause difficulty to students and learners of language. Prerequisite: An introduction to linguistics such as FL 2050 or consent of instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

FRENCH (FRE)

1010. Beginning French I/(3).F;S.
Understanding, speaking, reading, and writing French. Audiolingual techniques are combined with

required recording-listening practice in the language laboratory. Language structure and the indicative verb forms. Open to those with no previous preparation in French or those who make a low score on the French placement test. Recitation three hours a week and required laboratory.

1020. Beginning French II/(3).F;S.
Development of the basic skills of reading, writing, listening, and speaking. Language structure and the subjunctive verb forms. Recitation three hours a week and required laboratory. Prerequisite FRE 1010 or consent of the advisor.

1030. Accelerated Elementary French/(6).On Demand.
Combines FRE 1010 and 1020 in one semester. Meets daily for a total of 300 minutes per week. Development of the basic skills of reading, writing, listening and speaking. Audiolingual techniques are combined with required recording-listening practice in the language laboratory.

1040. Intermediate French I/(3).F;S.
Continued training in understanding, speaking, reading and writing French. Prerequisite: two units of high school French and a good score on the French placement test, or FRE 1020 or the equivalent. Recitation three hours a week and required laboratory.

1050. Intermediate French II/(3).F;S.
Focus on readings in French texts of intermediate difficulty, dealing with the culture and literature of France. Emphasis on oral and reading comprehension, vocabulary acquisition, and correct usage of grammatical and idiomatic expressions in the discussion of cultural topics. Prerequisite: FRE 1040 or the equivalent. Recitation three hours a week and required laboratory.

1060. Accelerated Intermediate French/(6).On Demand.
Combines FRE 1040 and 1050 in one semester. Meets daily for a total of 300 minutes per week. Prerequisite: 2 units of high school French and a good score on the Placement Test, or the equivalent.

1070. French Review/(3).F;S.
Intensive review of basic skills in reading, writing, listening, and speaking for students who need additional work to pass the proficiency tests required for entry into all courses above 2000. Credit hours will apply as an elective, but not as part of a major or minor in the department. Prerequisite: FRE 1050.

IN ORDER TO REGISTER FOR COURSES TAUGHT IN FRENCH ON THE 2000 LEVEL OR ABOVE, STUDENTS MUST PASS PROFICIENCY TESTS OR TAKE FRE 1070.

2010. Conversational French/(3).F.
Emphasis on acquisition of a practical vocabulary and active use of the language. Prerequisite: FRE 1050 or the equivalent or by special placement. Recitation three hours a week and required laboratory.

2500. Independent Study/(1-3).F;S.

3015. Masterpieces of French Literature I/(3).F.
A study of the works of representative French authors from the 12th century to the French Revolution. Prerequisite: FRE 2010 or 3075, or consent of the advisor.

3025. Masterpieces of French Literature II/(3).S.
A study of the works of representative French authors beginning with the French Revolution through the 19th and 20th centuries. Prerequisite: FRE 2010 or 3075, or consent of the advisor.

3050. Culture and Civilization of France/(3).F.
The culture of France as seen through its social and political development, its institutions, and its arts. Middle Ages to the French Revolution. Prerequisite FRE 2010 or 3075, or consent of the advisor.

3055. Culture and Civilization of Modern France/(3).S.On Demand.
The culture of France beginning with the French Revolution as seen in its arts and its social, political, and economic institutions. Prerequisite: FRE 2010 or 3075, or consent of the advisor.

3075. Advanced Conversation/(3).S.On Demand.
Review of the more difficult structures of the language. Introduction of additional vocabulary and idiomatic expressions which will allow the student to express complex ideas on contemporary and professional issues with fluency and an acceptable pronunciation. Prerequisite: FRE 2010 or consent of the advisor.

3080. Advanced Grammar, Composition, and Syntax/(3).F.On Demand.
An introduction to the various types of expository writing with emphasis on the morphology, syntax, and idioms of French. Prerequisite: FRE 2010 or 3075 or consent of the advisor.

3090. Business French/(3).On Demand.
A study of the current specialized vocabulary pertinent to international trade and business. Selected readings from appropriate journals and magazines, plus attention to various types of business correspondence. Prerequisite: FRE 3075 or consent of the instructor.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

4010. Francophone Literature/(3).On Demand.
An in-depth study of French literature outside of France. Special consideration will be given to the themes and style of representative works from Africa, the Antilles, Madagascar, and Canada. Content will vary. Conducted in French. Prerequisite: FRE 3075 or consent of the instructor.

Senior/Graduate Courses
4550. French Phonetics and Diction/(3).F.
A study of the sound system in French, the phonetic alphabet and its use. Oral practice. Prerequisite: FRE 2010 or 3075 and senior/graduate standing. Required of French majors and French M.A. candidates.

4555. History of the French Language/(3). On Demand.
The evolution of French from Latin to its present form; integral developments and external influences. Study of phonology, morphology and syntax of Old French and reading of selected Old French texts. Required of French M.A. candidates.

4560. France Today/(3).F.
A survey of the evolution of contemporary France, from the end of World War I to the 1980's. Will examine the major historical events and the political, social, and cultural movements which have served to shape and define France of today. In addition to extensive readings, each student will select a topic, in conjunction with the professor, for a class report. Prerequisite: FRE 2010 or 3075 or consent of the advisor.

4565. Advanced French Syntax/(3).S.
In-depth study of French syntax. Translation exercises from English to French, paying close attention to stylistic and syntactical changes necessary to arrive at an authentic French prose. Prerequisite: FRE 3080.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

GERMAN (GER)

1000. Elementary Conversational German/(1-3).On Demand.
Elementary conversational patterns for students without previous knowledge of German. The course is designed to acquire elementary speaking skills in the German language. It is envisioned for summer study on campus and abroad.

1010. Beginning German I/(3).F;S.
Understanding, speaking, reading, and writing German. Audiolingual and video techniques are combined with required recording-listening practice in the language laboratory. Language structure and the indicative verb forms. Open to those with no previous preparation in German or those who make a low score on the German placement test. Recitation three hours a week and required laboratory.

1020. Beginning German II/(3).F;S.
Development of the basic skills of reading, writing, listening, and speaking. Language structure and the subjunctive verb forms. Audiolingual and video techniques. Three hours a week and required laboratory. Prerequisite GER 1010 or consent of the advisor.

1030. Accelerated Elementary German/(6).On Demand.
Combines GER 1010 and 1020 in one semester. Meets daily. For description of the course, see respective GER 1010 and 1020 classes.

1040. Intermediate German I/(3).F;S.
Continued training in understanding, speaking, reading, and writing German. Prerequisite; two units of high school German and a good score on the German placement test, or GER 1010 and 1020 or the equivalent. Recitation three hours a week and required laboratory.

1050. Intermediate German II/(3).F;S.
Focus on readings in German texts of intermediate difficulty, dealing with the culture and literature of Germany. Emphasis on oral and reading comprehension, vocabulary acquisition, and correct usage of grammatical and idiomatic expressions in the discussion of cultural topics. Prerequisite: GER 1040 or the equivalent. Recitation three hours a week and required laboratory.

1060. Accelerated Intermediate German/(6).On Demand.
Combines GER 1040 and 1050 in one semester. Meets daily for a total of 300 minutes per week. Prerequisite: 2 units of high school German and a good score on the Placement Test, or the equivalent.

2010. Conversational German I/(3).F.
Emphasis on acquisition of a practical vocabulary and active use of the language. Prerequisite: GER 1040 and 1050 or the equivalent or by special place-

ment. Recitation three hours and required laboratory.

2500. Independent Study/(1-3).F;S.

3015. Masterpieces of German Literature I/(3).F.
A study of the works of representative German authors from the 8th to the 18th century. Prerequisite: GER 1040 and 1050 or consent of the advisor.

3025. Masterpieces of German Literature II/(3).S.
A study of the works of representative German authors of the 19th and 20th centuries. Prerequisite: GER 1040 and 1050 or consent of the advisor.

3030. German Phonetics and Diction/(3).S.
A thorough study of the sound system in German. Oral practice and laboratory. The goal is to achieve a near native pronunciation. Prerequisites: GER 1040 and 1050.

3050. Culture and Civilization of Germany/(3).F.
Study of German institutions, philosophy, literature, and art prior to World War II. Prerequisite: GER 1040 and 1050 or equivalent.

3055. Postwar Germany/(3).S.On Demand.
A study of the major difficulties Germany encountered after World War II, the formation of the West German government, the social system, the economic system and the educational system. These and other relevant topics will acquaint the students with modern Germany. Prerequisite: GER 1040 and 1050, or consent of the advisor.

3075. Advanced Conversation/(3).F.On Demand.
Review of the more difficult structures of the language. Introduction of additional vocabulary and idiomatic expressions which will allow the student to express complex ideas on contemporary and professional issues with fluency and an acceptable pronunciation. Prerequisite: GER 2010 or consent of the advisor.

3080. Advanced Grammar, Composition, and Syntax/(3).F.On Demand.
An introduction to the various types of expository writing with emphasis on the morphology, syntax, and idioms of German. Prerequisite: GER 2010 or consent of the advisor.

3090. Business German/(3).S.On Demand.
This course provides an insight into the current German business world. Acquisition of the specialized language of social security, international finance, marketing, import and export trade, and trade unions. Film strips convey an instructive account of the business scene. Prerequisite: GER 1040 and 1050, or consent of the advisor.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3550. German Customs and Folklore/(3).F.On Demand.
Study of the German "way of life", the traditions, festivities, and the spirit of the people. Free informational materials made available by the German government serve as study guides.

JAPANESE (JPN)

1010. Beginning Japanese I/(3).F.
Understanding, listening, speaking, reading and writing Japanese. Audiolingual and video techniques are combined with required recording-listening practice in the language laboratory. Sentence structure and patterns are studied within an accompanying cultural context. No prerequisite. Recitation three hours and required laboratory.

1020. Beginning Japanese II/(3).S.
Development of the basic skills of reading, writing, listening and speaking. Sentence structure and patterns in cultural context. Introduction to Japanese traditional writing system and practice of reading and writing. Prerequisite: JPN 1010 or consent of the instructor. Recitation three hours and required laboratory.

1040. Intermediate Japanese I/(3).F.
Further development of the four language skills and understanding the language in its cultural context. Emphasis on reading and writing of the traditional Japanese texts and on the different levels and styles of speech. Prerequisite: JPN 1010 and 1020 or consent of the instructor. Recitation three hours and laboratory.

1050. Intermediate Japanese II/(3).S.
Continued development of the four language skills and comprehension of relations between the language and the culture for gratification of student's wants and meeting their needs. Prerequisite: JPN 1040 or consent of the instructor. Recitation three hours and laboratory.

LATIN (LAT)

1010. Elementary Latin I/(3).F.
Beginning with concepts of conjugation and declen-

sion, the students focus on the indicative mood of verbs both active and passive, as well as on all declensions of nouns and adjectives. Easy sentences and passages are used to develop translation skills.

1020. Elementary Latin II/(3).S.
Grammar study continues and includes the use of the subjunctive mood, infinitives, and participles. Passages from Caesar's *Gallic War* are also read. Prerequisite: LAT 1010 or consent of the instructor.

1040. Intermediate Latin I/(3).F.
Complete review of grammar and syntax leads to translation of Cicero and selected later prose writers. Prerequisite: two units of high school Latin and a good score on the Latin placement test, or LAT 1020, or the equivalent.

1050. Intermediate Latin II/(3).S.
Study of the lyric poetry through Catullus and Horace. Attention is paid to political and literary background of poets. Prerequisite: LAT 1040 or consent of the instructor.

2500. Independent Study/(1-3).F;S.

3010. The Aeneid/(3).F.
Prerequisite: LAT 1050 or four years of high school Latin or permission of the instructor. Key passages are selected for translation and discussion. Lecture three hours. Offered odd-numbered years.

3020. The Roman Historians/(3).S.
Prerequisite: LAT 1050 or four years of high school Latin or permission of instructor. Translation of selected passages and discussion of literary values of Livy, Sallust and Tacitus. Lecture three hours. Alternate years with LAT 4020.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

4010. Roman Satire/(3).F.
Selections from Horace and from Juvenal will be read. Discussions will include each poet's specific characteristics and his influence on western culture. Alternate years with LAT 3010.

4020. Roman Comedy/(3).S.
Selections from the comedies of Plautus and Terrence will be read. Discussions will include the practice of contamination and the playwright's influence on western culture. Alternate years with LAT 3020.

RUSSIAN (RSN)

1010. Beginning Russian I/(3).F.
Understanding, speaking, reading and writing Russian. Audiolingual techniques are combined with recording-listening practice in the language laboratory. Language structure and the indicative verb forms. Open to those with no previous preparation in Russian or those who make a low score on the Russian placement test. Recitation three hours a week and required laboratory.

1020. Beginning Russian II/(3).S.
Development of the basic skills of reading, writing, listening and speaking. Language structure and verbal aspect. Prerequisite: RSN 1010 or consent of the advisor. Recitation three hours a week and required laboratory.

1040. Intermediate Russian I/(3).F.
Continued review and training in understanding, speaking, reading and writing Russian. Prerequisite: two units of high school Russian and a good score on the Russian placement test, or RSN 1020 or the equivalent. Recitation three hours a week and required laboratory.

1050. Intermediate Russian II/(3).S.
Focus on readings in Russian texts of intermediate difficulty, dealing with the culture and literature of the Soviet Union. Emphasis on oral and reading comprehension, vocabulary acquisition, and correct usage of grammatical and idiomatic expressions in the discussion of cultural topics. Prerequisite: RSN 1040 or equivalent. Recitation three hours a week and required laboratory.

SPANISH (SNH)

1010. Beginning Spanish I/(3).F;S.
Understanding, speaking, reading, and writing Spanish. Audiolingual and video techniques are combined with required recording-listening practice in the language laboratory. Language structure and the indicative verb forms. Open to those with no previous preparation in Spanish or those who make a low score on the Spanish placement test. Recitation three hours and required laboratory.

1020. Beginning Spanish II/(3).F;S.
Development of the basic skills of reading, writing, listening, and speaking. Audio-lingual and video techniques. Language structure and the subjunctive verb forms. Recitation three hours a week and required laboratory. Prerequisite SNH 1010 or consent of the advisor.

1030. Accelerated Elementary Spanish/(6).On Demand.
Combines SNH 1010 and 1020 in one semester. Meets daily for a total of 300 minutes per week. Development of the basic skills of reading, writing, listening and speaking. Audiolingual techniques are combined with required recording-listening practice in the language laboratory.

1040. Intermediate Spanish I/(3).F;S.
Continued training in understanding, speaking, reading, and writing Spanish. Prerequisite: two units of high school Spanish and a good score on the Spanish placement test, or SNH 1010 and 1020 or the equivalent. Recitation three hours and required laboratory.

1050. Intermediate Spanish II/(3).F;S.
Focus on readings in Spanish texts of intermediate difficulty, dealing with the culture and literature of Spain. Emphasis on oral and reading comprehension, vocabulary acquisition, and correct usage of grammatical and idiomatic expressions in the discussions of cultural topics. Prerequisite: SNH 1040 or the equivalent. Recitation three hours a week and required laboratory.

1060. Accelerated Intermediate Spanish/(6).On Demand.
Combines SNH 1040 and 1050 in one semester. Meets daily for a total of 300 minutes per week. Prerequisite: 2 units of high school Spanish and a good score on the Placement Test, or the equivalent.

1070. Spanish Review/(3).F;S.
Intensive review of basic skills in reading, writing, listening, and speaking for students who need additional work to pass the proficiency test required for entry into all courses on the 2000 level or above. Credit hours will apply as an elective, but not as part of a major or minor in the department. Prerequisite: SNH 1050. Recitation three hours a week and required laboratory.

IN ORDER TO REGISTER FOR COURSES TAUGHT IN SPANISH ON THE 2000 LEVEL OR ABOVE, STUDENTS MUST PASS PROFICIENCY TESTS OR TAKE SNH 1070.

2010. Conversational Spanish/(3).F.
Emphasis on acquisition of a practical vocabulary and active use of the language. Prerequisite: SNH 1040 and 1050 or the equivalent or by special placement. Recitation three hours a week and required laboratory.

2500. Independent Study/(1-3).F;S.

3015. Masterpieces of Spanish Literature/(3).F.
A study of the works of representative Spanish authors from the Middle Ages to the present. Prerequisite: SNH 2010 or 3075 or consent of the advisor.

3025. Masterpieces of Spanish American Literature/(3).S.
A study of the works of representative Spanish American authors from the Precolumbian period to modern times. Prerequisite: SNH 2010 or 3075 or consent of the advisor.

3050. Culture and Civilization of Spain/(3).F. On Demand.
A description of historical events which significantly contributed to the shaping of the unique Spanish vision and practice of life. Prerequisite: SNH 2010 or 3075 or consent of the advisor.

3055. Culture and Civilization of Spanish America/(3).S.On Demand.
A description of historical events, currents of thought, artistic trends, aboriginal and European inheritance, and other factors which significantly contributed to the shaping of the unique Spanish-American vision and practice of life. Prerequisite: SNH 2010 or 3075 or the equivalent or consent of the advisor.

3063. Hispanic Life-ways/(3).On Demand.
An overview of present-day Spain and Spanish America through a thematic approach to such topics as geography, demography, national festivities, lifestyles, and cultural patterns. The contributions of Spain and Spanish America to Western Civilization and their influence on the United States. Students certifying in elementary and middle school will be given special instruction in adapting the materials for appropriate teaching situations. Prerequisite: SNH 1050 or equivalent or consent of the advisor.

3075. Advanced Conversation/(3).S.On Demand.
Review of the more difficult structures of the language. Introduction of additional vocabulary and idiomatic expressions which will allow the student to express complex ideas on contemporary and professional issues with fluency and an acceptable pronunciation. Prerequisite: SNH 2010 or consent of the advisor.

3080. Advanced Grammar, Composition, and Syntax/(3).F.On Demand.
An introduction to the various types of expository writing with emphasis on the morphology, syntax, and idioms of Spanish. Prerequisite: SNH 2010 or 3075 or consent of the advisor.

3090. Business Spanish/(3).On Demand.
A study of the current specialized vocabulary pertinent to international trade and business. Selected

readings from appropriate journals and magazines, plus attention to various types of business correspondence. Prerequisite: SNH 2010 or 3075 or the equivalent.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

Senior/Graduate Courses

4550. Spanish Phonetics and Diction/(3).F.
A study of the sound system in Spanish, the phonetic alphabet and its use. Oral practice. Prerequisite: SNH 2010 or 3075 and senior/graduate standing. Required of Spanish majors.

4555. History of the Spanish Language/(3).On Demand.
Study of the evolution of Spanish. Prerequisite: SNH 2010 or 3075 and senior/graduate standing. Required of Spanish M.A. candidates.

4565. Advanced Spanish Syntax/(3).S.
In-depth study of Spanish syntax. Translation exercises from English to Spanish, paying close attention to stylistic and syntactical changes necessary to arrive at an authentic Spanish prose. Prerequisite: SNH 3080.

Department of Geography and Planning (GHY/PLN)

Neal G. Lineback, Chairperson

The major objectives of the Department of Geography and Planning are to:

1. Promote the understanding of the spatial dimensions of human behavior within the physical and cultural systems of the earth and the role of planning in achieving improvement in those systems.
2. Offer a well-balanced curriculum which will aid students in finding productive places in society.
3. Maintain a staff dedicated to teaching, scientific research, and community-regional service.

Bachelor of Arts Degree in Geography (BA)

A major in geography leading to the Bachelor of Arts degree consists of 36 semester hours in geography courses numbered above the 1000 level with the following courses required: GHY 2310, 3100, 3110, 3200, 3210, 3310, 4200, 4800 and 4830; 9 semester hours of geography and planning electives, with at least three hours taken from regional courses. STT 3810 and an appropriate foreign language are required.

Bachelor of Science Degree in Geography (non-teaching) BS

A major in geography leading to the Bachelor of Science degree (without teacher certification) consists of 36 semester hours in geography and planning above the 1000 level. Required courses include GHY 2310, 3100, 3110, 3200, 3210, 3310, 4200, 4800, 4830, PLN 2410 and six semester hours of electives, 3000 level or above. STT 3810 and one of the two following concentrations is also required:

1. The general geography concentration requires five to six semester hours of approved courses in statistics and/or computer applications. In addition the student must take a minimum of 15 semester hours in approved ancillary courses.
2. The concentration in computer cartography includes GHY 2812, 3812, and 6 to 12 hours of GHY 4900, six hours in approved TEC, computer science, physics, or other computer application courses above the 1000 level.

Bachelor of Science in Social Science (with teacher certification and concentration in Geography)

The department also provides a concentration of twelve semester hours in geography beyond the social science core requirements for majors in social science seeking the Bachelor of Science degree and teacher certification. These twelve hours include GHY 2310, 3013, 3200, and 3210. For the social science requirements, refer to the index. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Minor in Geography

A minor in geography consists of 18 semester hours, including general education requirements, and at least three hours in regional courses.

Bachelor of Science Degree in Community and Regional Planning (BS)

A major in community and regional planning leading to the Bachelor of Science degree consists of a minimum of 61 semester hours as follows:

1. Core courses for all majors include GHY 2310, 3310, PLN 2410, 2812, 3431, 3730, 4700, 4800, 4830, and 4900; STT 3810; CS 1410 or another computer science programming course.
2. At least 15 semester hours of electives must be selected from: FIR 3850; ECO 4800; GHY 3200, 3210, 4200; HIS 3824; PS 2130, 2160; SOC 4100, 4300.
3. At least six additional semester hours of electives must be courses selected with the approval of the advisor of the planning program.

Minor in Community and Regional Planning

A minor in community and regional planning consists of 20 semester hours including PLN 2410, 3431 and 3730, and nine hours chosen from among the non-planning courses listed as required or electives within the major of the planning program or other appropriate courses selected with the approval of the advisor of the planning program.

The Department of Geography and Planning offers the Master of Arts degree in social science education, secondary school teaching and community, junior and technical college teaching and a Master of Arts in geography. Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

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Courses of instruction in geography and planning

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

GEOGRAPHY (GHY)

1010. Introduction to Physical Geography/(3).F;S;SS.
A comprehensive study of our physical earth emphasizing the distributional patterns and interrelatedness of its land, soils, natural vegetation and habitat, and weather and climate. Examinations of environmental issues including hazardous wastes, acid rains, floods, droughts, deforestation and air pollution.

1020. World Regional Geography/(3).F;S;SS.
The study of our contemporary world divided into the regions of North America, Central and South America, Africa, the Middle East, Europe, the Soviet Union, and South, East and Southeast Asia. Examination of global issues including population problems, technology and culture change, rural versus urban development, resource exportation and international trade, political identity and international conflict.

2310. Map Interpretation and Map Making/(3).F;S.
This course introduces the student to the relevance of maps, methods and techniques of map interpretation and classification. It also provides training in map design, data analysis and drafting with appropriate instruments. Some materials and equipment must be provided by the student. Two hours lecture and two hours laboratory.

2500. Independent Study/(1-4).F;S;SS.

2812. Microcomputers in Geography and Planning/(3).F;S;SS.
Basic computer skills common to the work environment of geographers, planners and others interested in the graphic presentation of geographic data. Includes word processing, file generation, database management and the generation of graphics. Recommended also for majors in industrial arts, art, and criminal justice.

3011. Europe/U.S.S.R./(3).S.
A study of this region's contemporary geographic condition. Emphasis on resource development, superregional cooperation, environmental problems, industrial shifts, marketing and international trade, relations with the United States, and the potential for internal and international political stress.

3012. U.S. and Canada/(3).S.
A regional analysis of historical and contemporary cultural and physical environmental factors which have led to the highly developed character of the United States and Canada.

3013. North Carolina/(3).F.
The study of contemporary conditions and problems of land and people in a southern state. Topics include: economic development and potential for change, population mobility, urbanization and the impact of development in rural and environmentally fragile areas, regional impact of changing life styles, national and international interdependence. Recommended for future North Carolina teachers, public administrators and business leaders.

3015. The Geography of Asia/(3).F.
An introductory survey of the region. Emphasis is placed on the geographical patterns and the similarities and differences in physical and cultural environments, population growth, mobility and urbanization; natural resource location and exploitation; economic growth and international linkages; the environmental implications of development; and political sion problems, technology and culture change, rural versus urban development, resource exportation and international trade, political stability and change.

3100. Weather and Climate/(3).S.
Introductory concepts of atmospheric processes and their relationships to people are developed. Student is familiarized with instruments used to measure and record weather phenomena. The world pattern and characteristics of climates and the human response are examined. Two hours lecture and two hours laboratory. Prerequisite: GHY 1010 or permission of instructor.

3110. Vegetation, Soils, and Landforms/(3).F.
A systematic analysis of the spatial characteristics of vegetation, soils, and landforms especially as they interact in the North American realm. Consideration is given to the processes affecting the ecosystem

and their relation to people's activities. Two hours lecture and two hours laboratory. Several extensive field trips are taken. Prerequisite: GHY 1010, or permission of instructor.

3200. Geographic Perspectives on Human Behavior/(3).S.
An approach to understanding the ways in which people perceive, behave in and structure their geographical environment. The course emphasizes variations in spatial behavior such as the uses of personal spaces and social territories, choosing locations for social activities, migration, and diffusion of ideas and innovations across geographical space and regional organization. Solutions to contemporary problems are stressed.

3210. Economic Geography/(3).S.
The spatial analysis of economic systems dealing with the location, collection, distribution, and accessibility factors associated with the functional interrelationships between manufacturing, transportation-communications, and markets. Students will be involved in location problem solving and field work. Recommended for business majors.

3310. Environmental Remote Sensing/(3).S.
This course introduces the student to the kinds of remote sensing techniques presently available for environmental analysis. It provides for study of a wide variety of aerial photographs and space images and their interpretation in the field. Lecture two hours, laboratory two hours.

3400. Recreational Land Use/(3).S.
A study of selected recreational phenomena including their regional and local setting, design, organization and use. Field trips are taken to local resorts and other recreation areas. Course is especially appropriate to majors in leisure studies and resort management.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3812. Computer Assisted Cartography/(3).F.
Theory, process and application of computer assisted cartography and geographic information systems. Emphasis on project work to maximize experience with computer mapping principles, hardware and software. Two hours lecture; two hours laboratory. Prerequisites: GHY 2310 and 2812 or their equivalents.

4200. Urban Geography/(3).F.
Spatial organization of human activity focusing on the evolution and organization of city systems, the internal structure of urban areas, and urban problems, policies and planning with emphasis on problem solving and field work. The course is applied in nature and recommended for majors in social studies, business, and planning.

4230. Political Geography/(3).On Demand.
Spatial aspects of territoriality, boundaries, voting patterns, government programs, formation of political units, political development and integration, and environmental policy.

Senior/Graduate Courses

4800. Quantitative Methods/(3).S.
The study of the quantitative methodology relating to the analysis of relationships between man and his physical environment, their spatial consequences, and the resulting regional structures that have emerged on the earth's surface. Prerequisites: STT 3810 and senior status, or permission of instructor.

4810. Digital Image Processing/(3).F.
Course focuses on acquisition of digital images, image processing, image enhancement techniques for interpretation, and applications of remote sensing technology. Prerequisites: GHY 2812, 3310, or with permission of instructor.

4812. Geographic Information Systems/(3).S.
GIS is a wide ranging topic encompassing five distinct functions within a total system context. These functions are: 1) data input, 2) data storage, 3) data management, 4) data manipulation and analysis, and 5) data output. Emphasis will be placed on the applications frequently found in geography and planning. This course is project oriented to give the student maximum experience in each of the functions of a GIS and to allow the student to associate the technical areas of GIS with "real world" scenarios. Prerequisite: GHY 3812 or equivalent experience required.

4820. Geographical Hydrology/(3).S.
The study of the occurrence and movement of water on the earth, with a focus on applications of surface hydrology. Water movement through the hydrologic cycle, flood analysis, and water use/water policy are emphasized. Prerequisites: GHY 1010, 3100, 3110 or with permission of instructor.

4830. Senior Seminar/(3).S.
A capstone experience in which student will prepare a research or project proposal leading to a finished

product to be presented before peers and departmental faculty members. Majors of senior standing only.

4900. Internship in Geography and Planning/(3-12).F;S;SS.
The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

COMMUNITY AND REGIONAL PLANNING (PLN)

2410. Introduction to Planning/(3).S.
Introduction to the principles, philosophy, and theories of planning. Emphasis is placed on planning approaches to the solution of contemporary regional, urban, and environmental problems. Students will participate in several field trips.

2500. Independent Study/(1-4).F;S;SS.

2812. Microcomputers in Geography and Planning/(3).F;S;SS.
Basic computer skills common to the work environment of geographers, planners and others interested in the graphic presentation of geographic data. Includes word processing, file generation, database management and the generation of graphics. Available to majors in industrial arts, art and criminal justice.

3431. Planning Techniques/(5).F.
The student gains insight into the planning process at all levels, becomes acquainted with the range of factors germane to planning and acquires the skills and techniques for preparing a community plan. Two hours lecture, six hours laboratory.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3730. Land Use Regulations/(3).S.
The study of zoning, subdivision, and other land use regulations with particular reference to North Carolina applications. The role of environmental impact statements, floodway zoning, historic districts, community appearance commissions, as well as the role of the courts in defining land use regulations is also considered.

Senior/Graduate Courses

4700. Project Management/(3).S.
Simulated experiences in dealing with the complex procedures pertinent to planning individual projects, including the development, review, approval, monitoring, and management thereof. Emphasis is also placed on preparing proposals for external funding of community improvement projects. Open to geography, planning, political science, real estate and leisure studies majors; others by permission of instructor.

4800. Quantitative Methods/(3).S.
The study of the quantitative methodology relating to the analysis of relationships between people and their physical environment, their spatial consequences, and the resulting regional structures that have emerged on the earth's surface. Prerequisites: STT 3810 and senior status, or permission of instructor.

4830. Senior Seminar/(3).S.
A capstone experience in which student will prepare a research or project proposal leading to a finished product to be presented before peers and departmental faculty members. Majors of senior standing only.

4900. Internship in Geography and Planning/(3-12).F;S;SS.
The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Geology (GLY)

Fred Webb, Jr., Chairperson

Purposes of the Department of Geology are:

1. To provide all students with the opportunity to learn basic scientific principles through the study of geology.
2. To introduce students to the many ways in which geology is interwoven into the fabric of modern civilization.
3. To provide geology majors with the sound background requisite for productive work in their profession and graduate studies.
4. To provide students in the earth science concentration (under the BS in science education) with the opportunity to become competent earth science teachers.

A major in geology leading to the Bachelor of Arts degree is recommended for those students who intend to pursue graduate studies in geology after graduation at Appalachian. The program consists of the following, in addition to general requirements for B.A. degrees in this college as stated elsewhere in this catalog:

A major leading to non-teaching Bachelor of Arts or Bachelor of Science degrees in geology consists of a minimum of 36 semester hours of geology courses above the 1000 level. Required courses for each degree include GLY 2007, 2015, 2024, 2070, 2085, 3015, 3200, 3240, 3260, 4210, 4211, either 4650 or 4501 and 4510, an approved six semester-hour geology summer field course, and three hours of geology electives. In addition, both degree programs require MAT 1110 and 1120, CHE 1101 and 1102, and PHY 1150 and 1151.

Other requirements for the B.A. degree include an additional three semester hours of courses in the Department of Mathematical Sciences.

Additional requirements for the B.S., non-teaching, degree are either six semester hours of statistics or eight semester hours of computer science, including CS 1410 and either CS 1400 or 1440 (MAT 1100 may be taken to complete the eight hour requirement). The program also requires at least 8 semester hours of appropriate non-geology courses that must be approved by the student's department advisor.

During the senior year, the B.A./B.S. (non-teaching) student must take and achieve a satisfactory score on a comprehensive examination covering theoretical and practical aspects in areas of geology. Students who are unsuccessful on portions or all of the examination may retake appropriate portions up to two additional times before graduation. In addition, all non-teaching majors are required to take the graduate record examination (advanced portion required although both portions are recommended) and have scores reported to the department prior to graduation. No minimum score is required on the GRE.

A minor in geology consists of GLY 1101 and 1102, plus GLY 2007, 2015, 2024, and an additional six hours of geology courses numbered above 1199.

A major in geology leading to the B.S. degree and teacher certification requires GLY 1101, 1102, 1103, 2007, 2015, 2024, 2120, 3300, 4850, 3 hours of geology electives, and

GLY 3520 (one hour **each** of instructional assistance in GLY 1101, 1102, and 1103). Also required are GHY 3100 and 3110; BIO 1110; PHY 1001 and 1002; MAT 1020 or 1025; MAT 1110; and at least 12 hours selected from CHE 1101, 1102, PHY 1103, and 1104. This program also provides an endorsement in physical science. In order to obtain a secondary science endorsement, a total of at least 12 hours must be taken in either physics or chemistry or biology. Each additional science endorsement requires at least 12 hours of course work in a specific science area. For information on necessary professional education requirements for secondary education certification, see Department of Curriculum and Instruction.

Courses of instruction in geology

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

GEOLOGY (GLY)

1101. Introduction to Physical Geology/(3).F;SS.
Introduction to the composition, origin, and modification of earth materials through study of geological cycles; principles of geology demonstrated through use of practical examples. This course plus either GLY 1102 or GLY 1103 will fulfill the one year General Education natural science requirement. Lecture two hours, laboratory two hours.

1102. Introduction to Historical Geology/(3).S;SS.
Survey of principles of study of the earth's past and its inhabitants; and overview of the history of the earth and its inhabitants, with emphasis on North America and the Appalachian Mountains. Lecture two hours, laboratory two hours.

1103. Introduction to Applied Geology/(3).S;SS.
Survey of principles of the study of physical and chemical processes that change the earth's crust and surface through modification of earth materials; principles of origin, distribution, availability, and exploration of earth's mineral resources; emphasis on applications of principles of geological science to solutions of practical problems. Lecture two hours, laboratory two hours.

1510. Geological Science Honors-Physical/(4).F.
The origin, composition, and modification of the earth and earth materials through geologic time. Physical and chemical principles are used to evaluate earth processes. This course plus GLY 1511 will fulfill the one year general education natural science requirement. Prerequisite: MAT 1020 or high school equivalent. Enrollment by invitation of the department or by application. Lecture three hours, laboratory two hours.

1511. Geological Science Honors-Historical/(4).S.
Geochronology, based on biological and physical principles, and the biological principle of evolution and genetics are used in conjunction with geologic principles to evaluate earth history and the history of life. Prerequisite: GLY 1510. Enrollment by invitation of the department or by application. Lecture three hours, laboratory two hours.

2007. Mineral Identification/(1).F.
Hand specimen identification of common rock-forming and economically important minerals based on geological associations and physical properties. prerequisites: GLY 1101 or 1510 or consent of instructor. Meets for five weeks; lecture one hour, laboratory two hours twice per week.

2015. Rock Classification and Identification/(1).F.
This course provides an introduction to rock classifications commonly employed by geologists, and instruction in the description of rock samples. Prerequisites: GLY 1101 or 1510 and GLY 2007. Meets for five weeks; lecture one hour, laboratory two hours twice per week.

2024. Fossil CLassification and Identification/(1).F.
Survey of single-celled, plant, invertebrate, and vertebrate fossils, with emphasis on identification

of whole and fragmentary specimens, and their distribution in time and space. Prerequisites: GLY 1102 or 1511 or successful completion of at least one semester of biology. Meets for five weeks; lecture one hour, laboratory two hours twice per week.

2070. Mineralogy and Crystal Chemistry/(3).S.
Fundamentals of crystallography and crystal chemistry as applied to minerals; identification, classification, and description of crystals and minerals. Prerequisite: GLY 1101 and either 1102 or 1103 or 1511 and CHE 1101-1102 are prerequisite or corequisite, or consent of instructor. Lecture two hours; laboratory three hours.

2085. Preparation of Geologic Reports/ (3).S.
This course consists of instruction in basic methods of field data collection, laboratory analysis of field data, and geological library research; plus organization and presentation of written and oral geologic reports. Prerequisite: GLY 2015; open only to geology majors and minors. Lecture two hours, laboratory three hours.

2120. Environmental Geology/(2).S.
Application of the geological sciences to environmental problems; studies of geologic hazards and potentials, using case histories with emphasis on local and regional examples. Prerequisite: at least six hours of 1000-level geology courses. Lecture two hours.

2500. Independent Study/(1-4).F;S;SS.

3015. Petrology/(3).F.
This course includes a study of the mesoscopic and macroscopic features, the mineralogy, and the chemistry of rocks, plus the study of petrogenetic theory. Prerequisite: GLY 2015. Lecture two hours; laboratory three hours.

3100. Optical Mineralogy/(3).F.
Theory and use of the transmitted light, polarizing microscope in the study of common rock-forming minerals is the focus of this course. Grain mounts are used in the study of principles and thin sections analysis is introduced. Prerequisite: GLY 2007 and 2070. Lecture two hours, laboratory three hours.

3200. Introduction to Stratigraphy and Sedimentology/(3).F.
Properties, classification, and depositional models of sedimentary rocks. Principles of collection and interpretation of stratigraphic data; emphasis on field relationships. Prerequisite: GLY 2007, 2015, and 2024. Lecture two hours, laboratory three hours.

3240. Introduction to Paleontology/(3).S.
Morphology, phylogeny, temporal distribution, and paleoecology of fossils, with emphasis on invertebrates. Prerequisite: GLY 2024. Lecture two hours, laboratory three hours.

3260. Principles of Structural Geology/(3).S.
The nature, classification, genesis, and quantification of geologic structures, with emphasis on field relationships, is the subject matter for this course. Prerequisites: GLY 2015 and 2085. Lecture two hours; laboratory three hours.

3300. Geomorphology and Remote Sensing/(4).F.
This course includes a study of the nature of landforms. Qualitative and quantitative aspects of landform analysis in the field and laboratory using maps, aerial photographs, and satellite imagery are introduced. Prerequisites: at least six hours of 1000-level geology courses. Lecture three hours, laboratory three hours.

3350. Earth Science Investigations/(3).On Demand.
A course for elementary education majors with a concentration in science. Study of the composition of the earth, the physical processes continuously changing it, and the history of life, with emphasis on man's interaction with the earth. Activities suitable for presenting the material to elementary school students will be stressed. Lecture two hours, laboratory two hours. This course is not available to anyone who has previously completed GLY 1101.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

4015. Petrography/(1).On Demand.
This course is an introduction to the study of rocks in thin section using the petrographic microscope. Igneous, sedimentary, and metamorphic rocks are surveyed, and detailed textural and mineralogical analyses are the focus of the course. Prerequisites: GLY 3015 and 3100. May be taken concurrently with GLY 3015. Laboratory: three hours.

4020. Hydrogeology/(2).S.
This course includes a study of groundwater resources, sources and occurrence; factors governing groundwater movement through aquifers; and an analysis of techniques for measuring a water resource. Prerequisites: at least junior standing and minimum of six hours of geology courses above the 1000 level. Lecture two hours.

4210; 4211. Geology Seminar/(1).F;S.
Presentation and discussion of current topics, with emphasis on tectonics and historical geology during fall term; emphasis will be on student projects, petrology, and surficial processes during spring term. Prerequisite: senior standing geology major.

4220. Topics in Advanced Petrology/(3).F.
Igneous and metamorphic rocks, with emphasis on current ideas regarding their origin and significance, are the focus of this course. Thin section analysis, field observations, and theoretical analyses are emphasized. Prerequisites: GLY 2015, 3015, 3100. Lecture two hours, laboratory three hours.

Senior/Graduate Courses

4501. Senior Research/(1).F.
Initiation of a laboratory or field research project under supervision of a geology faculty member. Prerequisite: open only to senior geology majors with a minimum GPA of 3.00 in geology courses.

4510. Seniors Honors Thesis/(3).S.
Completion, under supervision of a geology faculty member, of the project begun in GLY 4501. An oral report on the project will be presented in the spring geology seminar. Minimum of 5 hours laboratory or field work per week. A written thesis will be presented to the department. A student who completes the thesis with a grade of B or better and who graduates with a GPA of 3.5 in geology courses will be graduated with "honors" in geology; with a grade of A and a geology GPA of at least 3.7, the student will be graduated with "highest honors" in geology. Prerequisite: GLY 4501; senior geology majors with minimum of 3.00 GPA in geology courses.

4650. Economic Geology and Exploration Techniques/(4).F.
Principles, processes, and distribution of major metallic and selected non-metallic mineral deposits with type illustrations; geochemical and geophysical exploration techniques as applied to mineral exploration stressed in laboratory. Prerequisites: GLY 2070, 3015, and 3260. Lecture three hours, laboratory three hours.

4850. Introduction to Oceanography/(2).F.
Physical, chemical, biological, and geological oceanography and their interrelationships. Prerequisites at least two of the following courses: BIO 1110 or 1101-1102, CHE 1101-1102, GLY 1102, and PHY 1103-1104. Lecture two hours.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of History (HIS)

George P. Antone, Chairperson

The study of history is an essential part of a liberal arts education and offers a valuable preparation for careers in law, journalism, public and applied history; in local, state, and national public service; in business, where a knowledge of domestic and foreign affairs is desirable, as well as in teaching and the advanced study of history. By exposing students to a variety of cultures and human experience and by training them in the interpretation of conflicting evidence, the history department seeks to prepare the major for the responsibilities of citizenship and for dealing with the ambiguities of human existence. Thus the department's program is designed to provide students with a knowledge of their own cultural tradition and an appreciation of other cultures and societies of the past.

The Department of History offers a broad curriculum in local, national, regional, and world history. Diversity in the program encourages the history major to develop a comparative approach to human problems and discourages parochialism; specialization in the major promotes an appreciation of the complexity of human affairs and the difficulties involved in interpreting them. Finally, the discipline of history provides an intellectual challenge as well as a stimulus to the imagination and to analytical thinking.

Undergraduate Advisement Office

Information about history department programs can be obtained from the undergraduate advisement office in Room 204 of Whitener Hall. The advisement office is open daily and is staffed by faculty advisors who assist with academic scheduling, explain departmental and university requirements, and provide descriptions of new and existing courses and information on career development.

Departmental Learning Laboratory

A history department learning laboratory is an important component in the instructional program offered by the history department. This laboratory serves students as a developmental center where assistance with study, reading, or testing skills can be obtained; an enrichment center for students who want to use available equipment and materials for projects conducted outside class; and a study center for those who need to complete assignments in audiovisual or reserved reading materials.

Bachelor of Arts degree BA

The Bachelor of Arts degree in history consists of 36 semester hours in history beyond the general education history requirement, including six hours from History 2201, 2204 (United States History); and 27 hours of general course work, including History 4100 (Senior Seminar). The 27 hours of general course work must be distributed among three geographic areas of study: (1) European history; (2) United States history; (3) non-Western history, including Africa, Asia, Latin America, and the Middle East. Majors are required to take a minimum of 12 semester hours in one of these areas and a minimum of nine hours in each of the two remaining areas. History majors seeking the BA degree are also required to acquire proficiency in a foreign language equivalent to courses 1010 through 1050, and to complete a minor in a related discipline.

Bachelor of Science degree in history, secondary education BS-teaching

The Bachelor of Science degree with teacher certification in secondary education consists of 30 semester hours in history beyond the general education history requirement. In addition to six hours in United States history (History 2201, 2204, this degree requires 24 hours of general course work, including History 4100 (Senior Seminar). The twenty-four hours of general course work must be distributed among the same geographic areas as described for the BA and BS-non-teaching degrees. Majors are required to take a minimum of nine hours in two areas and six in the remaining area. This degree also requires 35 semester hours of professional education courses, and 27 hours in related social science disciplines. Certification is in both history and social science.

Bachelor of Science degree (non-teaching) BS

The Bachelor of Science (non-teaching) degree, with a multidisciplinary concentration in a history-related career area, consists of an acceptable program of 60 semester hours, including a minimum of 36 semester hours in history, as described for the Bachelor of

Arts degree, and a minimum of 27 semester hours in a career-oriented concentration, with courses drawn from various departments and disciplines. Examples of general areas of career-orientation, around one of which the student may design a program, are: business, government service, public history, and other fields related to specific career interests. Career concentrations are designed by students in consultation with a faculty advisor and must be approved by the undergraduate advisement committee.

Bachelor of Science in social science education (with teacher certification and concentration in history.)

The BS in social science education with a concentration in history requires a core of 54 semester hours, including History 1101, 1102, 2201, and 2204, and an additional 12 hours in history for the concentration. For a list of required education courses and certification requirements for this degree, see the index entry for Social Science, Curriculum for Teacher Certification. This degree requires careful planning; interested students are encouraged to contact the undergraduate advisor in the Department of History early in their academic careers.

Public history concentration

BS students may also opt for career preparation in public service fields such as cultural resources management, historic site interpretation, architectural preservation, planning, and cultural journalism. Careers in public history require a thorough grounding in local, social, and cultural history; an understanding of public policy; and performance skills in areas such as planning, preservation and conservation techniques, records management, historic interpretation, and grantsmanship. Students in the public history concentration are required to take HIS 4578 (Introduction to Applied History). Non-history courses appropriate for this concentration are listed on the public history checksheet available in the history department undergraduate advisement office.

All BS programs are to be planned in consultation with the undergraduate advisor in the Department of History and are subject to the advisor's approval. Students are urged to plan their programs as early as possible in their academic careers, but not later than three semesters before anticipated graduation.

Minor in history

A minor in history consists of 18 hours above the general education requirements. See the index for sections describing interdisciplinary minors in Latin American Studies, Russian and East European Studies, and Asian Studies.

Academic Concentration in history

The academic concentration in history will consist of 26-27 hours distributed as follows: History 1101, 1102, 2201, 2204, either 2210 or 3728, 6 hours of electives in African, Asian, Latin American, or Middle Eastern History, and 6 hours of electives in United States or European History at the 3000 or 4000 level.

History department honors program

The department offers honors courses on all undergraduate levels which are open to students who have distinguished themselves. Honors courses carry full credit toward the major or, for non-majors, full elective credit. Subject to the recommendation of the departmental honors committee, a student will be considered for graduation with "honors in history" upon successful completion of at least one semester of honors work in world civilization or American civilization, one junior honors seminar, a senior honors thesis, and an examination. Those meeting these requirements with the grade "A" will be considered for graduation with "highest honors in history."

Master of Arts degree in history

The Department of History offers a Master of Arts in history education with concentrations in community, junior and technical college teaching, or secondary school teaching; and a Master of Arts in public history. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in history

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviation used in the following list of courses, see the index.)

HISTORY HONORS (HIS)

1510. Freshman Honors Colloquium/(3).S.
Study of a selected topic in the history of world civilizations. Enrollment by invitation of the department or by application.

2510. Sophomore Honors Colloquium/(3).F,S.
Study of a selected topic in American history. Enrollment by invitation of the department or by application. A history major may substitute 2510 for any three semester hours of the sophomore modules in United States history.

3510. Advanced Honors Seminar/(3).F,S.
Seminar on a selected historical topic. Enrollment is by invitation of the department, or by application.

4510. Senior Honor Thesis/(1-3).F,S.
Independent study and research for an honors thesis; directed by a member of the history department. Prerequisite: completion of an approved honors sequence, including HIS 3510. Enrollment by invitation only.

HISTORY (HIS)

1101. World Civilization/(3).F;S.
An introduction to the development of world civilization from ancient times to 1650. Selected topics trace the ancient, medieval, and early modern periods with stress on western ideas and institutions.

1102. World Civilization/(3).F;S.
An introduction to the development of world civilization from 1650 to the present. Emphasis is placed on the revolutionary epoch, the age of industrialization, imperialism, and ideology, and the modern global society.

2101. The World since 1945/(3).F.
A survey of global developments since 1945 in an historical context, including political changes such as the Cold War and the changing balance of power, decolonization and economic dependency in the non-western world; militarism and terrorism; environmental issues such as resource depletion and pollution; and the internationalization of the world.

2201. Survey of American Civilization to 1876/(3).F;S.
An examination of United States history to 1876, tracing the American experience from the colonial era through the Civil War and Reconstruction.

2204. Survey of American Civilization since 1876/(3).F;S.
An examination of United States history since 1876 tracing the American experience from the Gilded Age down to the contemporary era.

2208, 09. Themes in American Civilization/(1,1).F;S.
A modular-based introduction to the study of American civilization, offered in topical segments. Students may enroll in one or more modules examining varying subjects, such as American business and labor, the national character and the concept of destiny, rural and urban America, women and the family in American life, and American minorities.

2210. Introduction to State and Local History/(2).F;S;SS.
Study of selected themes in North Carolina history combined with development of research techniques and skills of state and local history.

2301. History of Colonial Latin America/(3).F.
A survey of Latin America from the ancient Indian civilizations to the wars for independence. Topics include the ancient Maya, Aztec, and Inca indians; the European discovery, conquest, and colonization of the New World; the colonial administration and exploitation of the Americas; and the independence movements which usher in the national period.

2302. History of Modern Latin America/(3).S.
A survey of Latin America from independence to the present. Topics include the legacy of independence; the rise of the great dictators; causes of instability and social change; twentieth-century revolutions; and the effects of United States policy in the region.

2401. History of Asia to 1500/(3).F.
A broad comparative survey investigating the formation of great cultural traditions in India, China, and Japan. The course begins with the birth of these civilizations and the formation of their distinctive ethical and political structures and concludes with the spread of these structures into southeast and northeast Asia and the appearance of European merchants in the east.

2402. History of Asia since 1500/(3).S.
Continues to compare the development of distinctive cultural processes and patterns in India, China, and Japan from 1500 and the advent of European merchants, through European domination, to Asian reaction, revolt, and eventual independence. The course concludes with an analysis of the revolutionary experiences of India, China, and southeast Asia in recent decades.

2421. History of Africa to 1850/(3).F.
A survey of pre-colonial Africa, examining such topics as geographical influences, neolithic development, structures of belief, ancient North Africa, Islamic influence, trade, African kingdoms and stateless societies, Bantu and other migrations, the slave trade, and early nineteenth- century changes in several parts of Africa.

2422. History of Africa since 1850/(3).S.
A survey which examines such topics as tradition and change in African cultures, the European partition and the African response, colonial systems, the Pan-African movement, the road to independence, and contemporary issues confronting independent Africa.

2500. Independent Study/(1-3).F;S.

2599. History: Scope and Method/(3).F;S.
Introduction to the nature, meaning and method of history, and to periodical literature, microforms, bibliographies, indexes, and other research tools.

2601. Survey of British History to 1715/(3).F.
An introductory survey of British history from the Celtic world through the eighteenth century. The course is concerned with Roman and Anglo-Saxon England, the Norman conquest and its subsequent building of a new state, and the Tudor-Stuart era with its political and scientific revolutions, the founding of a colonial empire and the classical age of the constitution.

2602. Survey of British History since 1688/(3).S.
Introductory survey of British history from the Glorious Revolution of 1688 to the present. The course is concerned with political, social, economic, and intellectual developments through the decline of the empire.

3122. Ancient Greece/(3).F.
A survey of ancient Greek society, culture and learning from the dawn of its beginnings to the achievement of Alexander. Alternate years with HIS 3124.

3124. Ancient Rome/(3).F.
A study of Roman historical, religious, and cultural practices covering the development and decline of the Republic, and the establishment and autocratic character of the Empire. Alternate years with HIS 3122.

3126. The Middle Ages/(3).F.
An examination of selected topics in the development of medieval civilization including such themes as the shape of feudal society, the age of Gregorian reform, the flowering of the 12th century, the 13th century synthesis, and crisis and transition in the 14th century.

3128. Renaissance and Reformation/(3).S.
The meaning of the Renaissance is investigated in terms of humanism and the arts in the fifteenth and sixteenth centuries; the emergence of the Lutheran and Calvinist movements is then studied against this background.

3130. Early Modern Europe, 1600-1815/(3).F.
This course will focus on the growth of royal and republican governments, the formulation of scientific methodology, the flowering of Baroque and Enlightenment cultures, the major wars and revolutions and the Napoleonic era and its impact.

3132. Nineteenth Century Europe/(3).F.
A survey of Europe, 1815-1914, which examines such themes as romanticism, the industrial revolution, socialism and Marxism, national unification movements, European expansion, the origins of World War I, and major cultural and intellectual developments.

3134. Twentieth Century Europe/(3).S.
A study of contemporary Europe which examines the impact of total war upon society, modern totalitarian movements such as Fascism and Nazism, European socialism and the Cold War, peace movements and peacemaking, the emergence of a European community, and cultural and social trends, all of which shape a modern European perspective.

3222. Colonial and Revolutionary America/(3).F.
An examination of the formation of American values and institutions through the interaction of European traditions and the American environment; social mobility, economic opportunity, and political democracy; the role of religion; Indian relations; slavery; the causes and consequences of the American Revolution; the Articles of Confederation; the Constitution.

3224. Jeffersonian and Jacksonian America/(3).S.
A study of the United States from 1789 to 1845. Topics include the political, social, economic, and ideological divisions of the 1790's; the triumph of the Jeffersonian party; the War of 1812 and the rise of American nationalism; the meaning of Jacksonian democracy; slavery and race relations; Indian removal; religion and reform; urbanization; the westward movement.

3226. Civil War and Reconstruction/(3).F.
A study of the era of national transformation, with emphasis on the sectional conflict and causes of the Civil War, its political and military conduct, its international impact, the abolition of slavery, and the principal political, social and economic aspects of its Reconstruction aftermath.

3228. The Gilded Age and Progressive Era/(3).F.
An analysis of the responses of the American people to the rise of the urban-industrial nation. Problems associated with the growth of the city, capital-labor confrontations, social mobility, black-white relations, reform movements, cultural and intellectual affairs, American imperialism, and representative biography are examined.

3230. Recent United States History/(3).S.
A study of American society, politics, and institutions in the period since 1920.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3720. History of the South/(3).F.
An examination of the development of America's major regional sub-culture; a study of significant trends in the social intellectual, economic, and political evolution of the region from the seventeenth century to the present. Alternate years with HIS 3724.

3724. History of the American West/(3).F.
A study of the colonial frontiers, the westward movement, the settlement and development of western America. Alternate years with HIS 3720.

3726. History of the Appalachian Region/(3).S.
A survey of the history of the Appalachian region from the period of exploration and settlement to the present.

3728. History of North Carolina/(3).F.
This course will examine the major social, economic, and political factors in the development of North Carolina from its settlement to the present. Consideration will be given to the relationship of the State to the Southern region and the nation.

3820. United States Foreign Policy/(3).F.
Major episodes in the history of United States foreign policy during the twentieth century are explored, with special consideration being given to the ideas, ideals, domestic and international conditions, and personalities that have played important roles in determining relations with the rest of the world.

3824. American Urban History/(3).S.
A study of the process of urbanization in America from colonial times to the present, with attention to the causes and nature of urban expansion, institutional development, class structure and mobility, problems of the city, reform, the image of the city in popular thought, and the impact of urbanization on national life.

3922. The Western Intellectual Tradition/(3).S.
Studies in western intellectual history which examine the interaction of historically important ideas and their social milieu, with emphasis on selected individuals and concepts that have shaped and exemplified western thought.

4100. Senior Seminar/(3).F;S;SS.
Variable content. An opportunity to examine in detail a particular field or topic in history. Emphasis is placed on critical reading, research and writing in a seminar atmosphere.

Senior/Graduate Courses
4550. Tsarist Russia/(3).F.
A survey of imperial Russia from the 15th Century to 1917.

4552. Soviet Union since 1917/(3).S.
The Russian Revolution and the Communist state since 1917.

4554. Modern China/(3).S.
Traces the course of man's longest and largest continuous government and the development of Chinese culture and nationalism which has culminated in the founding of the People's Republic of China, a nation that constitutes one-fourth of the human race. Alternate years with HIS 4558.

4558. History of the Islamic Middle East/(3).S.
A survey of the development and expansion of a distinctive Islamic civilization from the time of Muhammad to the present. The course treats the development of the Arab empire, the Turkic/Mongol invasions, the Ottoman and Safavid empires, and the establishing of the state of Israel, concluding with an investigation of current affairs in the Middle East. Emphasis is placed on social and cultural history, investigated from the point of view of the creators and transmitters of the civilization. Alternate years with HIS 4554.

4564. History of Canada/(3).S.
A survey of Canadian history since 1760 which stresses understanding of a unique Canadian identity by emphasizing Canada's evolution into an independent state, its bi-cultural and bi-lingual nature, its federal-provincial structures, its relationship to the United States and the British Empire-Commonwealth, its role in the modern era of superpowers, and selected aspects of its cultural and economic development. May be counted as American history. Alternate years with HIS 4566.

4566. History of Mexico/(3).S.
Traces the evolution of Mexican society from pre-Columbian times to the prreent. Topics include the Maya and Astec civilizations; the Spanish colonial heritage; the nation's struggle for independence; the tumultuous Mexican Revolution; and problems of economic development in the twentieth century. Alternate years with HIS 4564.

4578. Introduction to Applied History/(3).F.
An introduction to the techniques and skills employed by historians and other professionals working in historical agencies, museums, restorations, and the U.S. Park Service. Topics considered include historical archeology, family and community history, material culture, architecture, preservation techniques, site interpretation and administration, and historic district planning and management.

4900. Internship: Experiential Learning in Public and Applied History/(3-12).F;S;SS.
An on-the-job work experience individually tailored to the students' career orientation. Students may be required to reside off-campus for periods of from six weeks to a full semester. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

APPALACHIAN STUDIES (AS)

3500. Independent Study/(1-3).F;S;SS.

3530. Selected Topics/(1-4).On Demand.
An opportunity to study a special topic or combination of topics not otherwise provided for in the Appalachian Studies curriculum. May be repeated for credit when content does not duplicate.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Interdisciplinary Studies (IDS)

Kay H. Smith, Acting Chairperson

The mission of the Department of Interdisciplinary Studies is to provide the highest quality interdisciplinary programs for the Appalachian community. Interdisciplinary studies provides alternative approaches to general education for undergraduates and is committed to experimentation and innovation in curriculum design and scholarly research.

In contrast with traditional disciplinary approaches to organizing and teaching subject matter, interdisciplinary studies offers courses which focus on topical issues that bridge academic disciplines and that involve knowledge generated in multiple disciplines. Interdisciplinary methodologies acknowledge the complexity and inter-relatedness of the problems encountered by humanity in the late twentieth century and postulates integrative rather than fragmented solutions. Instead of stressing the uniqueness of the separate disciplines, interdisciplinary inquiry leads students towards synthesis, and thus towards an appreciation of the inter-connectedness of the world.

Interdisciplinary pedagogy here emphasizes team-teaching, seminar, and highly interactive discussion-oriented classes with low teacher-student ratios. Experiential learning, experimentation and innovation in teaching and learning styles, lead to the development of a flexible, progressive, and integrated curriculum model. Interdisciplinary studies encourages students and faculty to develop a generalist's integrated view of the world, a view which allows one to learn, teach and research across the boundaries separating academic disciplines.

Watauga College Residential Program

Watauga College is an on-campus residential college program offering interdisciplinary course work for freshmen and sophomores to fulfill the general education requirements in English, the humanities, and the social sciences. Students participating in the program can normally complete the University requirements in these areas in three semesters, but may enter or leave the program according to their academic needs. Required courses in mathematics, physical education, and the sciences are taken through the regular curriculum, as are major-related courses. Students live together in the same residence hall to permit emphasis on integrating the academic program with students' personal and social development. Participation in Watauga College does not exclude participation in any other special program at Appalachian. For more information contact the director of Watauga College.

Interdisciplinary Selected Topics Courses

Each semester, the interdisciplinary studies selected topics program offers highly topical courses of an inherently cross-departmental nature to the campus community. By means of this program, Appalachian professors may team with their colleagues from different areas to explore together issues and subjects of mutual interest. The emphasis is on relevant, experimental, and imaginative subject matters and pedagogies. While some courses may be taught more than one semester, the program's philosophy stresses variety and constant change. "The Vietnam War", "Women and Sports", "Creativity", "Mysticism

East and West", "Popular Culture Studies", "Films from Fiction"—these recent courses typify the spirit and ethos of the program.

Interdisciplinary Majors

Leighton R. Scott, Advisor

The general features of the B.A. in interdisciplinary studies degree are: (1) a series of core courses which give all IDS majors a firm grounding in interdisciplinary perspectives and methods; (2) a set of thirteen concentrations.

I. The core courses: Students are required to take IDS 3100, 3200, 4550; and either IDS 4100 or 4200.

IDS 3100	Interdisciplinary Approaches to Contemporary Issues
IDS 3200	Science and Culture
IDS 4100	Artists and Cultures
IDS 4200	Interdisciplinary Thinkers and Thinking
IDS 4550	Senior Seminar

II. All candidates for the B.A. in interdisciplinary studies must demonstrate intermediate proficiency in a foreign language. Some concentrations require specific language training.

III. The concentrations: Students are required to select one of the following concentrations and to meet the requirements of the concentration as stated. N.B.: In all concentrations, students may select other courses with the consent of an IDS advisor. Courses taken for general education credit may not be counted toward the major.

American Studies

Focus on the U.S. and/or Western Hemisphere. The American cultural matrix will be studied through a conscious application of interdisciplinary methods to an analysis of the interrelationships among historical, economic, political, artistic, literary, geographic and other factors which define the American experience. The goal will be both theoretical and practical understanding of American culture.

Intermediate proficiency in a foreign language: Spanish is recommended. Required courses: ANT 2400; ENG 2310 or 2320; GHY 3012; HIS 2201, 2204; PS 4310. Select 6 hours from the following courses: ANT 2235, 2600, 4120; ART 4630; ECO 2040; ENG 2120, 3710, 4770, 4780, 4790; FDN 3800; any history course in American history (including South and Central America, and Canada); IDS 3530 (Selected Topics in Women's Studies); MUS 2014; P&R 2050; any political science course in American Politics; SOC 4560.

Appalachian Studies

A study of the Appalachian Region through a conscious application of interdisciplinary methods. The student will consider the perspectives of history, folklore, economics, politics, ethnography, religion and literature to develop a theoretical and practical understanding of the culture, needs and potentials of this region.

Required courses: ANT 4120; HIS 3726; PLN 3530 (Selected Topics: Planning in Appalachia); P&R 4549 (Seminar: Southern Appalachian Religion). Select 12 hours from the following courses: AS 3500 (Selected Topics: Appalachian Studies); ENG

3530 (Selected Topics: Southern Appalachian Literature), 4810; FDN 4810; P&R 2050; PS 3630; PSY 3530 (Selected Topics: Southern Appalachian Personality).

Environmental Policy and Planning
By combining a background in science with the perspectives of economics, planning, and political science, students will consider public responses to ecological issues. They will learn to formulate and implement creative but practical public policy and procedures regarding the environment.

Students choosing this concentration must complete a minor in biology, chemistry, or geology. N.B.: The minor in biology must include BIO 3302 and 3312. Recommended cognates: with a minor in biology, CHE 1101-1102, 2201; GLY 1101, 1103, 2120. With a minor in chemistry, BIO 1101-1102 or 1110, 3302, 3312; GLY 1101, 1103, 2120. With a minor in geology, BIO 1101-1102 or 1110, 3302, 3312; CHE 1101-1102, 2201. Select 24 hours from the following courses (select at least two courses from each area). Area I: Economics—ECO 2030, 3530-3549 (Selected Topics in Environmental Economics), 4800. Area II: Planning—PLN 2410, 3431, 3730, 4700. Area III: Philosophy & Religion/Political Science—P&R 2000, 3700; PS 2130, 3280, 4175.

Individually-Designed
This concentration allows a student to tailor a major to their particular academic and career goals. Students selecting this concentration must design a clear, defensible statement of goals explaining why such goals can best be met through interdisciplinary means. Additionally, the student must complete a "Program of Study Contract" consisting of a minimum of 24 semester hours selected from two or more disciplines with at least 12 semester hours at the 3000 level or above. The contract must be approved by an IDS advisor; the contract may be changed, but only with the approval of the IDS advisor and the IDS chair. A copy of the contract must be on file in the office of the dean of the College of Arts and Sciences.

International Studies: Asia
The Asian cultural matrix will be studied through a conscious application of interdisciplinary methods to an analysis of the relationships among historical, economic, political, artistic, literary, geographic and other perspectives which define the Asian experience. The goal will be both theoretical and practical understanding of Asian cultures.

Intermediate proficiency in a foreign language appropriate to an Asian area of study (e.g., Chinese). Required courses: HIS 2401-2402; GHY 3015; P&R 2040. Select 12 hours from the following courses: general—HIS 5406; PSY 3530 (Selected Topics: Nature of Consciousness East and West); ART 3533 (Selected Topics: Asian Art), 5533 (Selected Topics: Asian Art). China—ANT 3100; HIS 3530 (Selected Topics: U.S.-China Trade), 4554; IDS 3532 (Selected Topics: A China Briefing). India—HIS 3530 (Selected Topics: Modern India). Japan—HIS 3530 (Selected Topics: Japan: Modern Transformation); P&R 3440. Islam—HIS 4558; P&R 2030, 3430; PS 4540 (Studies in Regional Political Patterns: Middle East).

International Studies: Latin America
The Latin American cultural matrix will be studied through a conscious application of interdisciplinary methods to an analysis of the relationships among historical, economic, political, artistic, literary, geographic and other perspectives which define

the Latin American experience. The goal will be both theoretical and practical understanding of Latin American cultures.

Intermediate proficiency in a foreign language: Spanish is required for this concentration. Required courses: HIS 2301-2302; GHY 1020; SNH 3055. Select 12 hours from the following courses (select at least two courses from each area). Area I: anthropology/history—ANT 4130, 4565; HIS 4566. Area II: Spanish—SNH 2010, 3025, 3050, 3063, FL 4010.

International Studies: Modern Europe
The European cultural matrix will be studied through a conscious application of interdisciplinary methods to an analysis of the relationships among historical, economic, political, artistic, literary, geographic and other perspectives which define the modern European experience. The goal will be both theoretical and practical understanding of modern European cultures.

Required course: GHY 3011. Select one of the following history series: HIS 3130-3132 or HIS 3132-3134. Select one of the following political science or philosophy and religion courses: PS 4540 (Studies in Regional Political Patterns: Government and Politics of Western Europe) or P&R 3200. Select 12 hours from the following courses (select at least one course from at least two of the following areas). Area I: anthropology/economics/ political science—ANT 3530 (Selected Topics: Eastern Europe); ECO 2040, 3040, 3410, 4630, 4640; PS 3210, 3240. Area II: history—HIS 2602, 3128. Area III: language/literature/culture—ART, MUS or P&R 2012; ART 3030; ENG 2020, 3710, 4830, 4840, 4850, 4860, 4870, 4880, 4890; all courses in French, Spanish or German at the 1000 level or above (courses taken to fulfill B.A. language requirement in foreign languages may not count toward the major); MUS 2611, 2612, 3611, 3612; P&R 2025, 2026, 3300.

International Studies: Russia/U.S.S.R./Eastern Europe
The Russian/Soviet/Eastern European cultural matrix will be studied through a conscious application of interdisciplinary methods to an analysis of the relationships among historical, economic, political, artistic, literary, geographic and other perspectives which define the Russian, Soviet, and Eastern European experience. The goal will be both theoretical and practical understanding of this complex geopolitical area.

Intermediate proficiency in a foreign language must be met by Russian or another Slavic language. Required courses: GHY 3011; HIS 4550, 4552; PS 4540. Select 12 hours from the following courses: ANT 3530 (Selected Topics: Eastern Europe: Humanism and Democracy); ECO 4630; HIS 3532 (Selected Topics: World at War); PS 3531 (Selected Topics: Russian Political Theory); SOC 3200.

International Studies: Third World
The cultural matrix of the Third World will be studied through a conscious application of interdisciplinary methods to an analysis of the relationships among historical, economic, political, artistic, literary, geographic and other perspectives which define the Third World experience. The goal will be both theoretical and practical understanding of the Third World.

Intermediate proficiency in a foreign language must be met by a language appropriate to the study of Third World societies. Colonial languages such as French and Spanish would qualify. Required courses: select 24 hours from the following

courses (select at least one course from each area). Area I: anthropology/sociology—ANT 1215, 3100, 3420, 3430, 4130, 4565; SOC 4560. Area II: geography/technology—GHY 1020 (required if not taken for general education credit), 3210, 4230, TEC 4638. Area III: history (select one of the following sets)—HIS 2301-2302, or 2401-2402, or 2421-2422, or 4554-4558. Area IV: history/political sciences—HIS 2302, 2402, 2422, 4554, 4558, 4566; PS 3120. Area V: philosophy and religion—P&R 2030, 2040, 3420, 3440.

Liberal Studies: Classical Period
A study of the foundational traditions—both intellectual and artistic—of the West. Students will trace the emergence of such cultural syntheses and movements as Athenian Democracy, Hellenistic and Rabbinic Judaism, Imperial Rome, the Medieval Church, the Renaissance and Reformation.

Intermediate proficiency in a foreign language: recommended that the requirement be met in Latin, Greek or Hebrew; however, German and French are acceptable. Required courses: select 24 hours from the following courses (select at least one course from each area). Area I: philosophy and religion—P&R 2025, 3430. Area II: history/philosophy and religion—HIS 3122; P&R 3000. Area III: art—ART 2030. Area IV: literature/theatre history—ENG 2010, 2030, 4830, 4840, 4850; FL 2010; FRE 3015; GER 3015; TD 3730. Area V: history/latin/religion/political science—HIS 3124, 3126, 3128; LAT 3010, 3020, 4010, 4020; P&R 2020, 2025, 2026, 3010, 3020; PS 3110.

Liberal Studies: Modern Period
A humanistic inquiry into the assumptions and organization of the modern West by examining it through many disciplinary perspectives and linking these perspectives to the foundational traditions of Western Culture.

Required courses: select 24 hours from the following courses (select at least one course from each area). Area I: history/philosophy and religion - HIS 3530 (Selected Topics: History of Science); P&R 3600. Area II: history—HIS 3130, 3132, 3134, 3530 (Selected Topics: Women in the Western World), 3922. Area III: English—ENG 2040, 2100, 3710, 4730, 4760, 4790, 4870, 4880, 4890. Area IV: art/theatre and dance—ART 3030; TD 3735. Area V: economics/philosophy and religion/political science/psychology—ECO 4630; P&R 3300, 3700; PS 3210, 4310; PSY 4658. Area VI: geography—GHY 1020, 3210, 4200, 4230. For students who meet prerequisites, the following are possible: FL 4020; FRE 3025, 3055; GER 3025, 3050; SNH 3015, 3025, 3050, 3055.

Urban Studies
An introduction to a broad spectrum of urban issues, focusing on problems resulting from rapid urbanization in the late 20th Century and analyzing these issues in a historical context. The goal will be both theoretical and practical understanding of urban culture.

Required courses: ECO 4800; GHY 4200; HIS 3824; PS 3330; SOC 4100. Select 9 hours from the following courses (select at least one course from each area). Area I: ANT 3550, 4565; CJ 3060; ECO 2030, 2040; GHY 3210; PS 2130, 2160, 3280; SOC 3530 (Selected Topics: Women, Crime, and Criminal Justice). Area II: HEC 4315; PLN 2410; P&R 2000, 3700; PSY 3351, 4670; SOC 4100, 4300, 4400; SW 2020, 4350.

Women's Studies

By means of a woman-centered interdisciplinary and cross-cultural analysis, this concentration seeks to rectify the omission of women from traditional university curricula. The goal is to broaden student knowledge about women in history, society, literature and culture. Both historic and contemporary materials are used; and a variety of methodologies—both theoretical and practical—are employed.

Required courses: I. Select one of the following: SOC 2850 or IDS 3530 (Selected Topics: Introduction to Women's Studies). II. Select one women's history course: e.g. The American Woman, Women in the Western World, The Woman Question in Western Thought, or another women's history course (usually HIS selected topics). III. Select 18 hours from the following courses (at least one course must be humanities and at least one must be social science). Humanities courses: ART 3530 (Selected Topics: Woman as Image and Image-Maker, Women Artists, Women and Media, etc.); ENG 2530 (Selected Topics in Women and Literature: American Women Playwrights; Folklore and Gender, etc.), ENG 3710; P&R 3530 (Selected Topics: Philosophy, Religion and Sexuality, etc.); IDS 3530 (Selected Topics: women's studies courses designated as humanities credit, e.g., Women and Film, Women and Spirituality), 3535 (Selected Topics: Feminist Theories—This course is strongly recommended.). Social science courses: ANT 3420; HED 3530 (Selected Topics: Women's Health, for example); PSY 3530 (Selected Topics: The Psychology of Sex Differences, for example); IDS 3530 (Selected Topics: women's studies courses designated as social science credit, e.g., Women and Work; Seeing Women; Women and Sports; Great Women; Women and the Law); SOC 3530 (Selected Topics: Women, Crime, and Criminal Justice).

To be admitted to the interdisciplinary studies program as a candidate for the B.A. degree, a student must have:

1. Completed a minimum of 28 semester hours and be eligible to enter a degree-granting college.
2. Achieved a grade-point ratio of at least 2.00 (which must be maintained).
3. Completed ENG 1000 and 1100.
4. Selected a concentration in consultation with the advisor of the program.

To earn the Bachelor of Arts in interdisciplinary studies, the student must meet the following requirements:

1. Completion of at least 122 semester hours with an overall grade-point average of at least 2.00. A transfer student must have an overall grade-point average of at least 2.00 on all work at Appalachian State University.
2. Completion of all the general education requirements.
3. Completion of six hours of a second year of foreign language or intermediate proficiency.
4. Admission into the interdisciplinary studies program prior to completing the last 30 semester hours before graduation.
5. Completion of all requirements in the chosen concentration including 24 hours of course work, 9 hours of which will be at the 3000 level or above.
6. Achievement of an overall grade-point average of at least 2.00 on all work in the IDS core and in the concentration.
7. Once admitted to an IDS major program option, a student who wishes to alter that

program must secure approval from the advisor(s) concerned and the chairperson of the Department of Interdisciplinary Studies.
8. Completion of electives to a minimum of 122 hours.
9. Completion of residence requirements.
10. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
11. Recommendation of the faculty.

Interdisciplinary Minors

AREA STUDIES

Asian Studies

A student may earn an undergraduate minor in Asian studies by successful completion of an interdisciplinary program of 18 semester hours. Requirements include:

1. Core requirement: HIS 2401-2402 (if 2401-2402 is taken to fulfill general education requirement, a student should take six semester hours of courses in Asian history, above the 2000 level); or GHY 3015 and P&R 2040,
2. Electives: 12 semester hours of Asian studies courses chosen from at least two department offerings,
3. Foreign Language: the B.A. student should choose a foreign language appropriate to the area of study; the student earning the B.S. degree should have a beginning level ability in a foreign language appropriate to the area of study, chosen in consultation with the Asian studies curriculum coordinator.

Students may select courses with a goal of breadth of understanding of issues in Asia, or may choose to focus on one area or research issue.

Current catalogue and recent selected topics listings from which courses can be chosen are listed below. Other appropriate courses such as independent study courses, may be chosen with approval of the Asian studies curriculum coordinator.

Courses cannot be used for the minor if fulfilling general education requirements.

Catalogue courses

ANT 3100	China in Context
GHY 3015	The Geography of Asia
HIS 2401	History of Asia to 1500
HIS 2402	History of Asia since 1500
HIS 4554	Modern China
HIS 4558	History of the Islamic Middle East
HIS 5406	Studies in Asian History
P&R 2030	Islam
P&R 2040	Religions of Asia
P&R 3430	Judaism
P&R 3440	Zen Buddhism
PS 4540	Studies in Regional Political Patterns (Middle East)

Independent study courses

Recent selected topics

ART 3533	Asian Art
ART 5533	Asian Art
CHN 1010	Beginning Chinese I
CHN 1020	Beginning Chinese II
CHN 1040	Intermediate Chinese I
CHN 1050	Intermediate Chinese II
HIS 3530	Japan-The Modern Transformation
HIS 3530	U.S.-China Trade
HIS 3530	Modern India
PSY 3530	The Nature of Consciousness East and West
US 3532	A China Briefing

Latin American Studies

A student may earn an undergraduate minor in Latin American studies by successful completion of an interdisciplinary program which must include: (1) two years of college Spanish or Portuguese or the equivalent; (2) at least 16 semester hours, including HIS 2301, 2302, 4566; and SNH 3025, 3050; (3) at least two semester hours in an interdisciplinary seminar or appropriate research project. Courses which a student elects to count toward this minor cannot also be included in a major. Credit toward meeting the above requirements may be earned by attending the Mexican study program which is conducted by the history department in cooperation with the Institute Cultural Tenochtitlan in Mexico City. For information concerning this program, contact the Department of Interdisciplinary Studies.

Russian, Soviet, East European Studies Minor

The minor in Russian, Soviet, and East European studies is offered to students who wish to explore the full context of the past and present concerns of Eastern Europe, Russia, and the Soviet Union.

Curriculum offerings, projects, and research relating to the region are coordinated by the coordinator of the Russian, Soviet, and East European studies minor. Students are advised to contact the coordinator early in their studies.

A student may earn an undergraduate minor in Russian, Soviet, East European studies by successfully completing an interdisciplinary program of 18-21 hours. Each student must take 12 semester hours from the core (including six in Russian languages) and six from the approved elective hours.

1. Core - 12 hours

RSN 1010	Beginning Russian I	3 s.h.
RSN 1020	Beginning Russian II	3 s.h.
RSN 1040	Intermediate Russian I	3 s.h.
RSN 1050	Intermediate Russian II	3 s.h.
HIS 4550	Tsarist Russia	
or		
HIS 4552	Soviet Union Since 1917	3 s.h.
GHY 3011	Europe/U.S.S.R.	3 s.h.

2. Electives - 6 hours

The remaining six hours of this minor must be approved by the coordinator. These courses may be taken in the colleges of Arts and Sciences, Business, Fine and Applied Arts, Education, and the General College. Possibilities include, but are not limited to, any remaining core courses and

SOC 3200 Sociology of the Soviet Union....3 s.h.
ANT 3530 Selected Topics: East Europe: Humanism and Democracy....3 s.h.
HIS 3530 Selected Topics: Soviet-Chinese Borders and/or World at War....3 s.h.
Pertinent courses in Russian/Eastern European literature (selected topics, and/or honors)....3 s.h.

Women's Studies

Office of women's studies

The mission of the office of women's studies is an academic one, which aims to help rectify the traditional omission of the study of women in the university curriculum. To that end, the office of women's studies (1) coordinates the program in women's studies (including interdisciplinary women's studies courses and departmental offerings); (2) facilitates faculty and student development in the study of women and gender by means of workshops, seminars, and lectures; and (3) makes available the materials of the Women's Studies Resources Center, a collection of periodicals, pamphlets, and books on topics and issues in feminist studies.

A student may earn an undergraduate minor in women's studies by successful completion of an interdisciplinary program of 15 semester hours. Each student is required to take a women's history course (HIS 3530) and one interdisciplinary women's studies course (US 3530), preferably "Introduction to Women's Studies"; as well as nine additional hours, selected from those listed. Substitutions may be made with the approval of the coordinator; for example, "The American Woman: A Social and Cultural History" may be substituted for "Women in the Western World." All courses counting toward the minor must be at the 2000 level or above.

1. Required courses
   a. HIS 3530 Women in the Western World (or "The American Woman: A Social and Cultural History")....3 s.h.
   b. One interdisciplinary women's studies course:....3 s.h.
   US 3530 Selected Topics (recent offerings: "Introduction to Women's Studies," "Women and Film," "Appalachian Women," "Women and Work," "Sex Roles, Sexuality and Media," "Great Women," "Women and the Law," etc.)

2. Electives
   a. SOC 2850 "Sex Roles"....3 s.h.
   b. ANT 3420 "Women in Cross-Cultural Perspective"....3 s.h.
   c. PSY 3530 Selected Topics: "The Psychology of Sex Role Differences," etc....3 s.h.
   d. ENG 3710 "Studies in Women and Literature," "Women Poets," "Literary Women," "Fiction by Women," etc....3 s.h.

e. ART 3530 Selected Topics: "Woman as Image and Image-Maker," "Women in Art," "Women and Media," etc. . . . . 3 s.h.
f. P&R 3530 Selected Topics: "Philosophy/Religion and Sexuality," etc. . . . . 3 s.h.
g. HED 3530 Selected Topics: "Women's Health," etc. . . . . 2-3 s.h.
h. Other US 3530, women's studies courses . . . . . 3-6 s.h.

3. Other electives will be added as the program develops.

Courses of instruction in Interdisciplinary studies (IDS)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

1101, 1103; 1102, 1104. Interdisciplinary Studies in Humanities and Social Science/ (10, 6; 10, 6) F,F;S,S. Watauga College only.
A multidisciplinary study in the humanities and social sciences in which basic problems of civilization will be considered: problems of subsistence and survival; problems of living together; problems of ideology and aesthetic satisfaction. The courses count as general education credit in English, social sciences, and the humanities. Students may receive credit for either 1101 or 1103, but not both, for either 1102 or 1104, but not for both.

2201, 2202, 2203, 2204, 2205, 2206. Interdisciplinary Studies in Humanities, and Social Science/(6, 3, 1, 6, 3, 1). F,F,F;S,S,S. Watauga College only.
A multidisciplinary study in the humanities and social sciences in which basic problems of civilization are considered. The courses are the six-hour, three-hour or one-hour equivalents of the 1101 and 1102 blocks. The courses count as general education credit in social science and the humanities.

2500. Independent Study/(1-4).F;S;SS.

3100. Interdisciplinary Approaches to Contemporary Issues/(3).F;S.
The goal of this course is to apply the perspectives of two or more disciplines to a problem of current concern. Students will learn to translate specialized disciplinary languages into a common language suitable for use in public policy discussion. The course will be as receptive to issues in the arts and humanities as to those arising in the domain of the social sciences. This course will also provide a context in which students may apply methods and perspectives from their major concentration.

3200. Science and Culture/(3).F;S.
The goals of this course are: to explore the impact of science on other aspects of culture through paradigm shifts, methodologies, relationships to technology, metaphors, and so forth; to consider the cultural contexts in which science operates, e.g., the political, religious, social constraints which affect scientific research choices, applications and interpretation of data; and to discuss the influences, dangers and opportunities science offers the total community. Prerequisite: completion of general education science requirement.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).F;S;SS.On demand.

3900. Internship/(3-12).F;S;SS.
Supervised work in an appropriate field experience. Student must get approval from the advisor of the B.A. in interdisciplinary studies program prior to enrolling. Graded on S/U basis only.

4100. Artists and Cultures/(3).F;S.
This course critically examines the lives, cultural settings and achievements of artists whose work expresses the major intellectual and spiritual preoccupations of an age. The emphasis is on art in context. Students will examine how art and artists effect, and are affected by, science, philosophy, theology, history and other disciplines. Examples of

artists and milieux which might be treated include Leonardo and Florence, Shakespeare and London, Dostoyevski and St. Petersburg, Hugo and Paris, or Virginia Woolf and London.

4200. Interdisciplinary Thinkers and Thinking/(3).F;S.
This course will critically explore one or more of the following: (1) the interdisciplinary aspects of such thinkers as Aristotle, Marx, William Irwin Thompson, Gregory Bateson or Gerda Lerner; (2) integrative systems such as general systems theory, social ecology or comparative civilizations; or, (3) contemporary theoretical issues such as the relation between literary post-modernism and constructive post-modernism. The goal will be to illustrate the methods and contributions of interdisciplinarity.

4550. Senior Seminar/(3).F;S.
The goal of the Senior Seminar is to bring together the senior IDS majors to focus on issues and ideas from cross-cultural, multi-disciplinary historical and contemporary perspectives. Students will be challenged to see problems from many angles, to work with people with different views and areas of expertise, and to display mastery of both interdisciplinary methods and the contents of their major concentration while remaining open to the claims and perspectives of other concentrations. Prerequisite: completion of three IDS core courses or permission of instructor.

Department of Mathematical Sciences (MAT)

H. William Paul, Chairperson

Through its faculty and curriculum the Department of Mathematical Sciences provides undergraduate and graduate programs of study which are designed to complement other areas of study in the university and to prepare students for careers in business, industry, and government, as well as in teaching at the elementary; secondary; and community, junior and technical college levels.

The Bachelor of Science degrees in the mathematical sciences offer a flexible curriculum to meet the professional objectives of the individual. By combining a strong background in the mathematical sciences with appropriately chosen study in related disciplines, the programs allow the student, with professional guidance, to prepare for desired career objectives.

Typical examples include: computer science combined with accounting; probability and statistics combined with courses in business and economics related to actuarial science; applied mathematics combined with physical or natural science; statistics combined with social science; applied mathematics and statistics combined with economics.

The department has Bachelor of Science advisory committees to review and approve individual programs of study, and each student is assigned an advisor. Degree candidates should seek approval of their program of study as early as possible in their career, but no later than three semesters before intending to graduate. For additional information, contact the chairperson of the Department of Mathematical Sciences.

Mathematical Sciences Honors Program

The department offers honors courses which are offered to all students who have exhibited to the faculty outstanding ability and interest in mathematics. Students who successfully

complete MAT 3510 with at least a grade of "B" and have earned at least a 3.45 GPA in mathematics courses are eligible for MAT 4510, Honors Thesis. Students who successfully complete at least nine hours of honors work in mathematics including MAT 4510 will graduate with "honors" in mathematics. Those meeting these requirements with grades of "A" in the honors course and earning a 3.65 GPA in mathematics will graduate with "highest honors" in mathematics. Honors courses carry full credit toward the major or, for non-majors, full elective credit.

Course requirements for the Bachelor of Science degrees (without teacher certification) in the Department of Mathematical Sciences require an approved program of study and must include at least 65 semester hours but no more than 80, with a minimum of 34 hours in the Department of Mathematical Sciences (at least 5 hours from 4000 level). Three degrees are available:

B.S. Statistics

1. MAT 1110, 1120, 2130, 2240.
2. STT 3820, 3840, 4810, 4830, 4850, 4860 plus eight hours of approved electives** in mathematical sciences plus five hours of related* work.
3. A career support emphasis of at least 18 semester hours from disciplines outside mathematical sciences.**

B.S. Mathematics

1. MAT 1110, 1120, 2130, 2240.
2. Completion of one of the concentrations
   a. Mathematics (general)—MAT 3110, 3220 plus 13 hours of electives** in mathematical sciences (at least 5 hours at 4000 level) plus 10 hours of related* coursework.
   OR
   b. Applied mathematics—MAT 3130, 3310, 4310, CS 1440, 2440, STT 4850 plus 6 hours of electives** in mathematical sciences with 6 hours of related* coursework.
3. A career support emphasis of at least 18 semester hours from disciplines outside mathematical sciences.**

*Related coursework may be outside mathematical sciences and must be approved by advisory committee.

**Must be approved by advisory committee.

B.S. Computer Science

This program is accredited by the computing sciences accreditation board.

1. CS 1440, 2440, 2450, 2490, 3460, 3481, 3482, and 3490.
2. MAT 1100, 1110, 1120, 2240, and STT 4850.
3. Twelve hours of electives* in computer science. These courses must be selected from CS courses numbered above 2000 (excluding 3520) and may include MAT 4310. At least one course numbered 4000 or higher must be included. No more than three hours of CS 3470 may be included in the twelve hours.

4. One of the following science sequences: PHY 1150-1151, CHE 1101-1102, GLY 1101-1102-1103.

5. Two courses* (minimum of six hours credit) selected from astronomy, biology, chemistry, geology and physics.

*Must be approved by departmental computer science advisor

B.A. Mathematics
A major leading to the Bachelor of Arts in mathematics consists of 34 semester hours in the Department of Mathematical Sciences including 1110, 1120, 2130, 2240, 3110, 3220 plus 14 hours of electives in mathematical sciences numbered 2000 or above (at least five hours from 4000 level).

B.S. Mathematics - secondary education
The Bachelor of Science degree in mathematics, secondary education and teacher certification consists of 34 hours in the Department of Mathematical Sciences with at least five hours from 4000 level. A teacher certification advisory committee reviews and approves individual programs of study and each student is assigned an advisor. Students should submit a proposed program of study as early as possible, preferably by the end of the sophomore year. (For the education requirements in teacher education, see the Department of Curriculum and Instruction.) All programs of study must include the 15 hour nucleus in mathematics of MAT 1110, 1120, 2130, and 2240. Since certification requires competencies in the areas of computer use, algebra, geometry, and statistics, a typical program of study might include CS 1440, MAT 3010, 3110, 3220, 3520, 3610, and STT 4850. PHY 1150 and 1151 are also required.

The Department of Mathematical Sciences encourages multiple majors. To obtain a second major within the department there must be a significant difference in the program content for that major compared to the first major. Approval by all involved departmental advisory committees is required.

Three minors are offered within the Department of Mathematical Sciences. A minor in computer science consists of 12 hours in computer science at the 2000 level or higher, excluding CS 3470 and CS 3520. A statistics minor consists of any 12 hours in statistics. A mathematics minor consists of MAT 1110 or MAT 1030 plus eight hours in mathematics which may include MAT 1120 or any course numbered 2000 or above excluding MAT 3520.

The Department of Mathematical Sciences offers a Master of Arts degree in mathematics education with a concentration in secondary school teaching, and a general Master of Arts degree in mathematics. Prospective community, junior or technical college teachers may be served by either of these. Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in mathematics, computer science, and statistics

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see the index.)

MATHEMATICS HONORS (MAT)

2510. Sophomore Honors Seminar/(3).F;S.
Development of selected concepts related to geometry and linear algebra. Enrollment by invitation of the departmental honors committee. Prerequisite: the calculus sequence.

3510. Junior Honors Seminar/(3).F;S.
Development of selected concepts related to modern algebra, analysis, differential equations, and/or probability/statistics not generally found in the traditional curriculum. Enrollment by invitation of departmental honors committee. Prerequisite: calculus sequence, modern algebra, linear algebra.

4510. Senior Honors Thesis/(3).F;S.
Independent study and research. Thesis directed by a member of the Department of Mathematical Sciences. Prerequisite: completion of MAT 3510 and a 3.45 GPA in mathematics. Enrollment by invitation of the departmental honors committee.

MATHEMATICS (MAT)

0010. Developmental Mathematics/(3).F;S;SS.
This course is intended for those persons with algebra deficiencies who are thus not prepared to enter MAT 1010 or MAT 1020. It is mandatory for students whose scores on the mathematics placement test indicate deficiency. The course content is elementary algebra. Study skills are emphasized. Class meets five hours per week including laboratory and the format allows for self-pacing and individualization. Course counts as three hours credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (see "Institutional Credit").

1010. Introduction to Mathematics/(4).F;S;SS.
Designed to develop appreciation for mathematical concepts from different viewpoints and aid in the development of mathematical literacy of a citizen of modern society. Topics covered may include systems of linear equations, inequalities, computer programming, probability and statistics, consumer mathematics and graph theory. Word problems are stressed. Not open to students with credit for MAT 1110. Prerequisite: Must pass placement test or MAT 0010.

1020. Algebra and Trigonometry/(4).F;S;SS.
An integrated study of algebra and trigonometry including such topics as the real and complex number systems, algebraic relations and functions, trigonometric functions, and elementary theory of equations. (For the student who wishes to strengthen his background in the computational aspects of the mathematics he began in high school.) Not open to students who have credit for MAT 1110. Prerequisite: MAT 0010 or placement.

1025. Algebra and Elementary Functions/(4).F;S;SS.
An overview of algebraic concepts and a thorough treatment of functions such as rational, logarithmic, exponential, and trigonometric. Included will be a rigorous treatment of analytic geometry. Recommended for students with less than four units of high school mathematics who plan to take MAT 1110. Student cannot receive credit for both 1020 and 1025. Not open to students who have credit for MAT 1110. Prerequisite: must pass placement test or MAT 0010.

1030. Calculus With Business Applications/(4).F;S;SS.
An introduction to the concepts of differentiation and integration with particular emphasis upon their applications to solving problems that arise in business and economics. This course is designed primarily for business and economics majors and is not open to mathematics majors or students with credit for MAT 1110. Prerequisite: MAT 1020 or MAT 1025 or equivalent.

1100. Discrete Mathematics/(3).F;S;SS.
A study of discrete mathematics with special emphasis on topics applicable to computer science. Concepts covered in the course include number systems, models, combinatorics, graphs, recursion, networks, and analysis of algorithms. Prerequisite: Must pass placement test or MAT 0010.

1110. Calculus With Analytic Geometry I/(4).F;S;SS.
A study of limits, continuity, differentiation, applications of the derivative, the differential, and definite integral, the fundamental theorem, and applications of the definite integral. Prerequisite: MAT 1025 or equivalent.

1120. Calculus With Analytic Geometry II/(4).F;S;SS.
A study of the logarithmic and exponential functions, circular functions and their inverses, techniques of integration, improper integrals, infinite series, Taylor polynominal and power series. Prerequisite: MAT 1110.

1910. Mathematical Systems and Applications/(2).F;S;SS.
Topics will include a development of the real number system, Euclidean geometry, number theory, mathematical systems, probability, and problem solving. Prerequisite: MAT 1020 or 1025.

2130. Calculus With Analytic Geometry III/(4).F;S;SS.
A study of parametric equations, vectors, vector-valued functions, function of several variables, double and triple integration, vector analysis, and an introduction to differential equations. Prerequisite: MAT 1120.

2240. Introduction to Linear Algebra/(3).F;S;SS.
A study of vectors, matrices and linear transformations, principally in two and three dimensions, including treatments of systems of linear equations and determinants. Prerequisite: MAT 1120 or permission of instructor.

2500. Independent Study/(1-3).F;S;SS.

3010. History of Mathematics/(2).On Demand.
A study of the development of mathematical thought, mathematics and culture, and the persons who have made significant contributions to these.

3110. Introduction to Modern Algebra/(3).F;S;SS.
Topics covered include sets, functions, equivalence relations, groups, rings, integral domains, fields and homomorphisms of these structures. Prerequisite: MAT 2240 or permission of the instructor.

3130. Introduction to Differential Equations/(3).F;S.
A theory of ordinary differntial equations with applications and classical methods for their solutions including series and Laplace transform techniques. Some numerical methods might be introduced. Prerequisite: MAT 2130, with MAT 2240 recommended.

3220. Introduction to Real Analysis I/(3).F;SS.
A treatment of the calculus of real valued functions of real variables including sequences, limits of function, continuity and differentiation. Prerequisite: MAT 2130 or permission of the instructor.

3250. A Study of the Integers/(2).S.
A study of the integers beginning with the Peano postulates and including the Fundamental Theorem of Arithmetic, Diophantine equations, congruences, Fermat's and Wilson's theorems, perfect numbers, Euler's theorem. Fermat's conjecture and the Goldbach conjecture. Emphasis will be on the historical as well as the theoretical development of the subject. Prerequisite: MAT 3110 or permission of the instructor.

3310. Applications of Mathematics/(2).F.
A survey of problems in the physical, engineering, biological and management sciences in which undergraduate level mathematics is applied in the formulation and solution. The course offers an opportunity for the student to bring all of his mathematical background to bear on some specific real-world problems. Prerequisite: MAT 2130 or permission of instructor.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3610. Introduction to Geometry/(3).F;S;SS.
A study of the development of Euclidean geometry including both the synthetic and the metric approach. Topics to be considered include parallelism and similarity, measurements, ruler and compass constructions, and consideration of at least one non-Euclidean geometry. Prerequisite: MAT 1120.

3910. Introduction to the Logic and Structure of Mathematics I/(4).F;SS.
To be included are topics from abstract algebra, geometry, number theory, mathematical logic, trigonometry and an intuitive approach to calculus. Prerequisite: MAT 1910 or permission of the instructor.

3915. Computer Languages for Learning Mathematics/(2).F;S;SS.
An introduction to computer languages such as LOGO which are especially designed to create environment for the learning of mathematics and are based on learning theory. The course will emphasize the learning theory foundations of the language as well as programming and teaching/learning applications. Prerequisite: MAT 1910 or permission of instructor.

3920. Introduction to the Logic and Structure of Mathematics II/(4).S;SS.
This course is an extension of 3910. Prerequisite: MAT 3910 or permission of the instructor.

4010. Undergraduate Seminar/(1-3).On Demand.
(Permission to register must be given by the department chairman.)

4220. Introduction to Real Analysis II/(3).S;SS.
A continuation of MAT 3220, including the Riemann integral, infinite series, and sequences and series of functions. Prerequisite: MAT 3220.

4310. Introduction to Numerical Methods/(3).F;S.
The development and application of numerical methods for the solution of transcendental equations, systems of linear equations, differential equations, integrations, and related problems utilizing the computer. Prerequisite: MAT 2130 and programming experience.

Senior/Graduate Courses

4560. Methods of Applied Mathematics/(3). F. Odd-numbered years.
The content may vary depending on the instructor. Suggested topics are: Fourier series; Sturm-Liouville problems; special functions and transforms; partial differential and nonlinear differential equations with applications; numerical methods. Prerequisites: MAT 3130 with MAT 3220 recommended. Knowledge of computers might be helpful.

4570. Advanced Differential Equations/(3).F. Even-numbered years.
Usual topics include:power series solutions; special functions; methods and theory of systems; existence and uniqueness theorems and continuations of solutions; Sturm theory; nonlinear differential equations; numerical methods. Prerequisites: MAT 3130 with MAT 3220 recommended.

4610. Foundations of Geometry/(2).S;SS.
A treatment of projective geometry including both the synthetic and the analytic approach. Also to be considered is a study of the relation of Euclidean, affine and hyperbolic geometrics to projective geometry. Prerequisites: MAT 2240 and 3610.

4620. Analysis I/(3).F.
A rigorous treatment of sequences, series, basic topology, continuity, and differentiation. Prerequisite: MAT 4220 or permission of instructor.

4710. Introduction to Topology/(3).F.
A study of the basic concepts of general topological space including such topics as compactness, connectedness, product spaces, metric spaces, and continuous functions. Prerequisite: MAT 3110.

4720. Abstract Algebra/(3).F.
A study of group theory including quotient groups, the fundamental theorem of finite Abelian groups, and the Sylow theorems. Includes an introduction to rings with emphasis on Euclidean rings and other principal ideal domains. Prerequisite: MAT 3110 or permission of the instructor.

4910. Informal Geometry/(3).S;SS.
An informal treatment of all aspects of geometry. The topics considered include congruence, measure of segments and angles, constructions, parallels and parallelograms, similarity, space geometry, areas and volumes, and measurements related to circles. Prerequisite: MAT 3910 or 3920 or permission of the instructor.

4930. Foundations of Mathematics/(3).S;SS.
A development of number systems through a postulational treatment of the properties of integers, rational numbers, and real numbers. Included is a study of logic, probability, and elementary statistics. Prerequisite MAT 3910 or 3920 or permission of instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

COMPUTER SCIENCE (CS)

1400. FORTRAN Programming/(3).F;S;SS.
A first course in FORTRAN programming intended for any student having a need for computer assistance. The course uses flowcharts and FORTRAN IV language for a set of programs introducing commonly encountered applications.

1410. Introduction to Computing/(2).F;S;SS.
This course includes an introduction to BASIC language, use of the software editor on the local mainframe computer and word processing on a microprocessor, and packages on both types of computers. Not intended for computer science majors. Prerequisite: Must pass placement test or MAT 0010.

1440. Programming Fundamentals/(3).F;S;SS.
This course will provide an introduction to programming in a block structured language, such as PASCAL. It is intended to be the initial course for computer science majors and will be a prerequisite for the next sequence of courses. Prerequisite: Must pass placement test or MAT 0010.

2430. COBOL Programming/(3).F;S;SS.
A study of the use of COBOL in solving a variety of applications, including sorting, searching, file processing, report writers and design methods. Prerequisite: CS 1440.

2440. Algorithms and Programming/(4).F;S.
A study of various programming concepts with emphasis on design and implementation of algorithms. Each student develops several significant programs. Topics covered include constructing and verifying algorithms, program design, debugging, advanced programming concepts, elementary data structures,

and social implications of computing. Prerequisite: CS 1440.

2450. Assembly Language and Machine Operation/(4).F;S.
This course includes data representation in the computer, computer logic, and a brief look at circuits, hexadecimal and binary numerals and arithmetic with emphasis on the study and practice of assembly language programming. Prerequisite: CS 2440. Corequisite or prerequisite: MAT 1100.

2490. Introduction to Theoretical Computer Science/(3).F;S.
Introduction to such topics as Boolean algebra, digital logic, coding theory, finite-state machines, Turing machines, and formal languages. Prerequisites: MAT 1100 and CS 2440.

3420. Files/(3).F.
A study of the principles of file organization and use. Topics covered include sequential, direct, indexed, hashed and tree organized files, data compression, data access performance, updating, sorting, and searching. Corequisite: CS 3460.

3440. Microcomputer Systems/(3).F. Odd-numbered years.
A hands-on study of the software-hardware relationships used to create computer systems, with emphasis on readily-available microprocessors and operating systems. The student will investigate systems of increasing complexity, from minimal configurations for running short machine-language programs through multi-user disk operating systems. Prerequisite: CS 2450 or permission of the instructor.

3460. Data Structures/(3).F;S.
The use and implementation of various information structures is studied, including arrays, records, stacks, queues, linked lists, and trees. Prerequisite: CS 2440.

3463. Simulation/(3).F. Even-numbered years.
Digital simulation of discrete systems. Simulation design. Statistical analysis and interpretation of simulation output. Simulation of computer and physical systems. Simulation languages. Prerequisites: CS 3460 and either STT 3810 or STT 4850.

3470. Current Computer Use/(1-6). On Demand.
Work experience which contributes to the student's background in the computing field, such as working as a programmer for a faculty member engaged in research or working in a computer installation for a period of time. The responsibility for arranging such work rests with the student with final approval given by the department chairperson. Graded on an S/U basis.

3481. Computer Systems I/(3).F;S.
The hardware and software components of computer systems are studied. Included are processors, memories, input/output devices, interrupts, microprogramming, suitable description languages, and the elements and structures of multiprogrammed operating systems. Significant projects are undertaken by each student. Lecture two hours, laboratory three hours. Prerequisite: CS 2450 and 2490. Corequisite: CS 3460.

3482. Computer Systems II/(3).F;S.
Continuation of CS 3481. Lecture two hours, laboratory three hours. Prerequisites: CS 3481 and 3460. Corequisite: CS 3490.

3490. Programming Languages/(3).F;S.
Comparison of user and implementation aspects of several programming languages, e.g., ALGOL 60, SNOBOL, lists processing languages and extensible languages. The concept of metalanguage is included. Prerequisite: CS 2490 and 3460.

3500. Independent Study in Computer Science/(1-3).On Demand.
This course helps the student advance through study under the direction of a faculty member, in the area(s) of special interest in computer science. It may be taken only after a minor in computer science is completed.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

4420. Real-time Systems/(4).S. Odd-numbered years.
Real-time hardware and software. Data acquisition and data reduction. Real-time algorithms and data structures. Advanced programming topics including buffering, input-output, and interrupts. Lecture three hours, laboratory three hours. Prerequisite: CS 3482.

4430. Database Systems/(3).S. Odd-numbered years.
This course investigates the principles of database systems. Topics covered include data models, data languages, hierarchical, relational, and network systems, security and privacy, and management. Prerequisite: CS 3420.

4450. Data Communications and Networking/(3).F. Odd-numbered years.
Introduction to data transmission concepts and techniques; channel characteristics; encoding methods; line control and error detection/correction protocols; circuit, message, and packet switching; layered network architectures and protocols; addressing, routing and flow control strategies; access methods; performance criteria and tradeoffs. Prerequisite: CS 3481.

4465. Computer Graphics/(3).S. Even-numbered years.
Fundamental concepts of computer graphics; graphics standards; hardware and software system organization; world, normalized and device spaces; vector generation; polygons and two-dimensional transformations; windowing and clipping. Prerequisite: CS 3481.

4467. Software Engineering/(3).F.
Methodical development of large software systems. Topics include: models, project life cycle, requirements and specification, structure charts and design criteria, incremental implementation, software metrics. Use of module and source code management, symbolic debugging, and project planning software. Students will participate in the realization of both group and individual software systems. Prerequisite: CS 3481.

Senior/Graduate Courses
4510. Programming Language Translation/(4).F.
Techniques for the translation of programming languages into machine or assembly language. Each student will participate in the writing of a compiler. Prerequisite: CS 3482, CS 3490.

4520. Operating Systems/(4).S.
Study in depth of the various parts of operating systems including schedulers, memory management, interrupt handling and time sharing. Lecture three hours, laboratory three hours. Prerequisite: CS 3482, STT 3810 or STT 4850.

4540. Artificial Intelligence/(3).S.
Includes artificial intelligence goals; problem solving; representations, manipulations, and storage of knowledge; knowledge representation in contrast to natural language and mathematical notation; heuristic programming; significant techniques such as expert systems. Prerequisite: CS 3460.

4550. Theoretical Computer Science/(3).S. Even-numbered years.
A rigorous treatment of theoretical aspects of computer science, including formal definition of the notion of an algorithm, abstract machines, and formal grammars. Prerequisite: CS 2490.

STATISTICS (STT)

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3810. Statistical Methods I/(3).F;S;SS.
A study of statistical methodology including organization and presentation of data, probability, statistical distributions, confidence intervals and hypothesis testing. Emphasis will be on computational procedures rather than theoretical development. Prerequisite: MAT 1020 or the equivalent.

3820. Statistical Methods II/(3).F;S.
A continuation of STT 3810. Topics covered will include regression, analysis of variance, analysis of covariance and experimental design. Emphasis will be on computational procedures rather than theoretical development. Prerequisite: STT 3810 or equivalent.

3840. Elementary Probability and Survey Sampling/(3).F.
The course begins with an introduction to discrete probabilities and related applications. In particular, the application of probability to sampling is studied in detail. The remainder of the course is devoted to the theory of sampling and sampling techniques. Applications are highlighted through examples and illustrated problems. Prerequisite: STT 3810 or STT 4860.

Senior/Graduate Courses
4810. Non-Parametric Methods/(3).S.
A study of non-parametric methods in estimation and hypothesis testing. Emphasis will be on applications rather than theoretical development. Prerequisite: STT 3810 and consent of instructor or 4860.

4830. Linear Statistical Models/(4).F. On Demand.
A study of regression analysis, analysis of variance, analysis of covariance, and associated tests of hypothesis via least squares theory. Canned computer programs will be utilized and interpreted in applications of the above topics. Prerequisites: MAT 2240 and STT 3820.

4850. Probability Theory/(3).F;S;SS.
An introduction to axiomatic probability theory. Topics include a study of sample spaces, probabili-

ty theory, random variables and their properties, and the fundamental limit theorems. Prerequisite: MAT 1120.

4860. Mathematical Statistics/(3).S.
An introduction to the mathematical principles of statistical inference. Topics include a study of sampling theory, point and interval estimation, and hypothesis testing. Prerequisite: STT 4850 and MAT 2130.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Philosophy and Religion (P&R)

Alan J. Hauser, Chairperson

The objectives of the Department of Philosophy and Religion are to acquaint students with the religious and philosophical history of humankind, giving special attention to those aspects of tradition having most to do with the shaping of the modern mind; to promote critical examination of and reflective discourse about philosophical and religious issues; and to promote a desire for advancing the skills and frontiers of knowledge in philosophy and religion.

In keeping with these objectives, the department offers an interdisciplinary major which requires a core of work in both philosophy and in religion but also provides students the flexibility to pursue their own interests. The department offers three minors, one interdisciplinary, one in philosophy, and one in religion. For participants in the graduate program a limited amount of graduate work is available, including an eight hour graduate minor. The graduate minor is designed for students on an individual basis. For further information, contact the department chairperson.

A major in philosophy and religion leading to the Bachelor of Arts degree consists of 36 semester hours, 27 hours of which must be above the freshman level. Students must participate in the following core: 1000: Introduction to Philosophy; 1020: Religions of the World; either 1040: Critical Thinking Skills or 1100: Logic I; one philosophy course at the 2000 level; one religion course at the 2000 level; one philosophy course at the 3000 level or above; one religion course at the 3000 level or above; two seminars (one the colloquium).

A minor in **philosophy and religion** consists of 18 semester hours, nine of which must be above the 1000 level and must include a seminar or the seminar colloquium. A student taking this minor must take at least six hours of courses in philosophy and at least six hours of courses in religion.

A minor in **philosophy** consists of 18 semester hours, at least three hours of which must be at or above the 3000 level.

A minor in **religion** consists of 18 semester hours, at least three hours of which must be at or above the 3000 level.

To determine which courses count as philosophy courses and which courses count as religion courses, see the chair of the departmental advising committee.

A student majoring or minoring in the department must obtain credit for one course in literature outside the department. If a student has satisfied the general education requirement of one course in literature by taking one or more courses in religion counting towards this requirement, he or she will be allowed to count them toward the major, but must obtain additional credit in literature equal to that counted toward the major.

To earn the Bachelor of Arts degree the student must complete six semester hours of the second year of a foreign language or higher. Students planning to pursue graduate studies in philosophy or religion may find it helpful to pursue a second foreign language. Students should consult with their advisor before making decisions regarding their foreign language study.

The department offers a 27-hour academic concentration to supplement the curriculum in the Department of Curriculum and Instruction. Students are required to take P&R 1000, Introduction to Philosophy and P&R 1020, Religions of the World, plus 21 hours to be agreed upon in consultation with the chairperson of the Department of Philosophy and Religion.

The Department of Philosophy and Religion offers an honors program comprised of courses at the introductory, intermediate, and advanced levels. Special honors sections will be designated from the following courses: 1000, 1020, 1100, 2010, 2020. Seniors Honors Thesis, 4510, is offered exclusively as an honors course. Invitation to enrollment in honors courses may be extended to any qualified students. However, to graduate with "honors in philosophy and religion" a student must be a major who has completed at least 9 hours of work in departmental honors courses with a combined G.P.A. of 3.4 or above in those courses. Three of the hours taken must be the course 4510, Senior Honors Thesis. For additional details regarding honors in philosophy and religion contact the director of departmental honors, Frans van der Bogert.

Courses of instruction in philosophy and religion (P&R)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

1000. Introduction to Philosophy/(3).F;S;SS.
A general introduction to the basic patterns and methods of philosophy as presented through representative thinkers.

1020. Religions of the World/(3).F;S;SS.
An introduction to the major living religions of the world.

1040. Critical Thinking Skills/(3).F;S.
An introduction to the art of critical thinking, including identifying problems, locating assumptions and analyzing their impact on the products of thought, assessing causal claims, learning problem solving strategies, and examining creativity.

1100. Logic I/(3).F;S.
An introduction to deductive and inductive reasoning, fallacy identification, and the careful use of language. A study of both traditional Aristotelian Logic and recent logic systems will be included.

2000. Ethics/(3).F;S.
An examination of the application of ethical theories to the identification, clarification, and criticism of values, using a case studies approach.

2010. Old Testament Literature/(3).F;S;SS.
An analysis of the Old Testament literature as the product of the life of the Hebrew people. Selected Old Testament documents will be studied in terms

of their literary structure, historical context and religious perspective.

2012. Humanities: Music, Art, and Ideas I/(3).F.
A course which concentrates on the interplay of art, music, philosophy and religion in the ancient through medieval cultures and their influences as manifested in other centuries.

2013. Humanities: Music, Art, and Ideas II/(3).S.
A course which concentrates on the interplay of art, music, philosophy and religion in contemporary culture.

2020. New Testament Literature/(3).F;S;SS.
An analysis of New Testament literature as the product of the life of the early Christian Church. Selected New Testament documents will be studied in terms of their literary structure, audience, historical context, religious perspective, and their relation to the broader Christian community and Western culture.

2025. Christianity I/(3).F.
An introduction to Christianity from the early church through the middle ages, treating such movements as martyrdom and monasticism, the church fathers and their response to heresy, and the growth and decline of papal power.

2026. Christianity II/(3).S.
An introduction to modern-day developments in Christianity stemming from the break-up between the Eastern and Western churches, the Protestant Reformation, the effect of the Enlightenment and science, and other contemporary movements such as ecumenism, missions, and secularism. (No prerequisite.)

2030. Islam/(3).S.
A selective survey of the religion and its expression in Islamic civilization and literature from the time of the revelation of the Quran to the prophet Muhammad to the Islamic revival of the current oil age.

2040. Religions of Asia/(3).F;S.
An analysis of the Hindu, Buddhist, Confucianist, and Taoist literatures as seen in the life of the Asian people. Selected literatures will be studied in terms of literary, philosophical and religious perspectives.

2050. Religion in America/(3).F.
An examination of religious beliefs and practice in the United States.

2100. Logic II/(3).S.
A study of some major systems of Logic, including a formal study of Truth Functions and Quantification. The notions of proof, theorem and axiom are defined and some theory of Logic is included. At the discreation of the instructor, additional topics may be included (for example, the Logic of Relations, Boolean Algebra Systems, Modal Logic, the Logic of Probability or Inductive Logic). Prerequisite: P&R 1100 or permission of the instructor.

2200. Philosophy of Art and Beauty/(3).F.
A study of the nature and value of beauty, uniqueness, and creativity in art, nature and human affairs.

2500 Independent Study/(1-4).F;S;SS.

3000. Ancient Philosophy/(3).F.
An introduction to philosophy through the study of the pre-Socratic Philosophers and of Plato and Aristotle. Prerequisite: one course in philosophy or consent of the instructor.

3010. Prophecy in the Old Testament/(3).S.
A study of the prophetic movement and its literature in the Old Testament. Prerequisite: 2010 or permission of the instructor.

3020. The Life and Letters of Paul/(3).F.
A study of Paul's life and Christian experience as reflected in his letters. Prerequisite: 2020 or permission of the instructor.

3200. Modern Philosophy/(3).S.
A study of views of eminent philosophers of the seventeenth and eighteenth centuries, including Descartes, Hume, and Kant. Prerequisite: one course in philosophy or consent of the instructor.

3300. Twentieth Century Philosophy/(3).S.
An examination of major continental European and Anglo-American developments in philosophy during the twentieth century. Such major figures as Russell, Wittgenstein, Moore, Ayer, Ryle and Austin in the analytic tradition, and Heidegger, Husserl, Sartre, and Merleau-Ponty in the existential tradition will be examined.

3410. Religious Awareness/(3).S.
An existential approach to spirituality based on the methods and insights of the religious traditions of East and West. Each person will have an opportunity for inquiry into the framework of a religious tradition of his or her choice.

3420. African Religions/(3).F.
An examination of Folk religion, Christianity and Islam in Africa. Particular attention will be given to symbol, ritual, belief and community within the African religions.

3430. Judaism/(3).F.
An examination of the history, literature, and faith of post-exilic Judaism, with concentration on selected topics and periods.

3440. Zen Buddhism/(3).S.
An exploration of the impact of Zen Buddhism upon Western cultures through materials drawn from Zen literatures, Western writings about Zen, and paintings.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3600. Philosophy of Science/(3).S.
An investigation of the foundations, structure, actual attainments, and ideals of the sciences. Prerequisite: one course in science or science education or philosophy or consent of instructor.

3700. Social Issues and Ethics/(3).S.
A study of selected moral problems as they arise in public policy (such as: abortion, nuclear deterence, and reverse discrimination) or various professions (such as: health care, law, business, and teaching), and the interrelationship between public policy and professional ethics.

4000. Nature of Knowledge/(3).F.
A study of the traditional problems of the origin, nature, and limitations of knowledge. What do we know and how do we know it? Prerequisite: one course in philosophy or consent of the instructor.

Senior/Graduate Courses
4510. Senior Honors Thesis/(3).On Demand.
Independent study and research. Honors thesis directed by a member of the Department of Philosophy and Religion and a member of an affiliated department appropriate to the topic selected by the student. Prerequisite: completion of 6 hours of Honors work below the 4000 level.

4549. Seminar/(3).F;S.
An intensive study of special problems, topics, or issues related to the study of philosophy and/or religion. The subject matter of this course will vary and barring duplication of subject matter a student may repeat the course for credit. Prerequisite: one course in philosophy and/or religion or consent of instructor.

4900. Internship/(3-6). On Demand. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Physics and Astronomy (PHY)

Karl C. Mamola, Chairperson

The objectives of the Department of Physics and Astronomy are:

1. to prepare students for a variety of careers which require a technical background, and
2. to provide service courses at appropriate levels for students in many disciplines.

The versatility of physicists is a result of a basic education which emphasizes fundamental phenomena in nature. Understanding these fundamentals allows a physicist to attack a wide range of problems in many different fields, from energy resources and the environment to transportation and communications.

By taking appropriate physics courses one can simultaneously learn about the physical side of nature in a most general way, acquire useful specific knowledge, and satisfy general education science requirements.

In keeping with these objectives, three undergraduate degrees and an M.S. degree in Applied Physics are offered. Minors are offered for both the undergraduate and the graduate student.

A major in physics leading to the Bachelor of Arts degree consists of a minimum of 36 hours in physics including 1150-1151 or 1103-1104; 2010-2020, 2210, 3010-3020, 4210 and seven to nine hours of physics electives. Also required are CHE 1101-1102 and MAT 1110, 1120, 2130, and 3130.

An undergraduate minor in physics consists of PHY 1103-1104, or 1150-1151 and any eight hours of electives in physics numbered 2000 and above.

An undergraduate minor in astronomy consists of PHY 1001, 1002, PHY 1103-1104 or PHY 1150-1151 and six hours of electives in astronomy selected from PHY 2001, 2002, 3100, 3200.

A major in physics leading to the B.S. degree and teacher certification requires a minimum of 32 hours in physics (including PHY 1103-1104, or 1150-1151, 2010-2020, 2210, 3210, 3520, 4210, and five to seven hours of physics electives—(PHY 1001, and either 2630 or 3630 being recommended), plus BIO 1110, GLY 1101, CHE 1101-1102, and MAT 1110, 1120, 2130, and 3130. Graduates of this program have North Carolina secondary science certification (Grades 9-12) and are certified to teach both physics and physical science.

An endorsement (Grades 9-12) in chemistry or biology or geology may be obtained by taking a minimum of 12 hours in one of those areas. An endorsement in mathematics may be obtained by taking a minimum of 18 hours of mathematics courses. A teacher with an endorsement may teach up to one-half of her/his course load in the endorsed area.

For information on necessary professional education requirements for secondary education certifiction, see Department of Curriculum and Instruction.

A major in physics leading to the Bachelor of Science degree (without teacher certification) with a concentration in applied physics consists of a minimum of 32 hours in physics including 1150-1151 or 1103-1104; 2010-2020; 2210; 3210; 4210; MAT 1110, 1120, 2130; and at least 18 hours in an emphasis area. A committee consisting of two faculty members from physics and one from each of the other disciplines in the emphasis area must advise each student individually and approve a program of study and any subsequent modifications. Some suggested core emphasis areas are: astrophysics, geophysics, engineering electronics, radiation safety physics, medical physics, technical management, industrial physics, computational physics, mathematical physics, and technical writing. The technical management emphasis includes all those core courses that are prerequisite to the Master of Business Administration (MBA) degree in the College of Business. (See the *Graduate Bulletin* for details regarding the MBA). Many other combinations for emphasis areas are possible and will be developed in consultation with the departmental chairperson and the faculty advisory committee.

Honors program in physics and astronomy

The Department of Physics and Astronomy offers a senior honors research and thesis course (PHY 4510) open only to majors in physics and astronomy during their final

undergraduate semester and who have an outstanding undergraduate record. A student who wishes to enroll in the senior honors research and thesis course should contact the department chairperson and make the necessary arrangements during the first semester of his/her senior year.

In order to graduate "with honors in physics and astronomy" or "with highest honors in Physics and Astronomy", a student must successfully complete PHY 4510. Additional information may be obtained from the department chairperson.

M.S. in applied physics

The Department of Physics and Astronomy offers an M.S. degree in applied physics. Persons interested in this degree are requested to consult the *Graduate Bulletin* for further information.

A graduate minor in physics consists of 8-12 hours selected from physics offerings numbered 4500 and above.

Courses of instruction in physics and astronomy (PHY)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

1000. Basic Astronomy: Discovering the Universe/(2).F;S;SS.
An overview of our current understanding of the universe, with an emphasis on the historical and modern observational techniques that have led us to current theories. Topics to be covered include the moon, planets, comets, meteors, the sun and other stars, black holes, galaxies, quasars and the search for extraterrestrial life. Telescopes, observatories and space exploration will also be discussed. Optional outdoor observing sessions will be offered. Lecture two hours. This course will not count toward completion of the general education Laboratory science requirement. Not open to students with credit for either PHY 1001 or 1002.

1001. Introductory Astronomy I—The Solar System/(3).F.
Topics to be covered include constellations, telescopes, the sun and moon, planets, asteroids, comets, the origin of the solar system and the search for extra-terrestrial life. There are also night observations and photography as well as a field trip to Appalachian's Dark Sky Observatory. Lecture two hours, laboratory two hours.

1002. Introductory Astronomy II—Stars and Galaxies/(3).S.
A study of astronomical objects located beyond our solar system. Topics to be covered include the structure and evolution of the stars, pulsars, black holes, gaseous nebulae, star clusters, galaxies, quasars and the structure of evolution of the Universe. Night observations of these types of objects will be made. Lecture two hours, laboratory two hours. Prerequisite: PHY 1001.

1101. Concepts of Physics/(3).F;S;SS.
This course presents a broad view of physics and its interrelations with other subjects. Some ideas of mechanics, heat, light, sound, electricity, magnetism, and quantum physics are surveyed at an introductory level, with energy as the connecting theme. A second semester of physics (1105 or 1106) covers certain of these topics in more depth. Lecture two hours, laboratory two hours.

1103-1104. General Physics/(4-4).F-S.
A study of the basic principles of physics including mechanics, thermodynamics, sound, electricity and magnetism, optics and modern physics. Corequisite for PHY 1103: MAT 1020 or MAT 1025 or equivalent. Lecture three hours, laboratory two hours.

1105. Physics of Sound/(3).F.
Designed for music majors and others interested in music, this course applies the physics of wave behavior to the understanding of musical sounds and instruments, auditoriums, high fidelity sound equipment, electronic sound synthesizers and to the ear and hearing. Lecture two hours, laboratory two hours.

1106. Physics of Light and Color/(3).F;S.
An introductory course intended primarily for students of the fine and applied arts and others interested in optical phenomena. Topics include the perception of light and color, color mixing, polarized light, photography, lasers, and holography. Lecture two hours, laboratory two hours.

1150-1151. Analytical Physics/(5-5).F-S.
An analytical and quantitative treatment of physics at a somewhat more advanced level than the 1103-1104 sequence. Intended primarily for students majoring in the natural sciences, mathematical sciences and pre-engineering. Topics covered include mechanics, heat, light, sound, electricity, magnetism and quantum phenomena. Corequisite: For PHY 1150: MAT 1110; For PHY 1151: MAT 1120. Lecture four hours, laboratory three hours.

1700. Personal Computers I/(2).F;S.
Introduction to small computers, their features, their applications and future developments. Programming in elementary BASIC will emphasize graphics and animation. Demonstrations of assorted hardware and software. No prerequisite.

1701. Personal Computers II/(2).F;S.
Intermediate BASIC programming to include the arithmetic and string handling functions of small computers as well as advanced graphics. Demonstrations of assorted hardware and software. Prerequisite: PHY 1700.

2001. Observational Astronomy I/(3).F.
This course introduces the student to the operation of astronomical instruments and to the acquisition and analysis of astronomical data. Lecture topics include coordinate systems and time, star catalogs and atlases, planning observational programs, basic telescope optics, photometry, and photography. Lab work, conducted at the campus observatory, will consist of individual small projects carried out to familiarize the student with many types of instruments and techniques. Lecture two hours, laboratory two hours. Prerequisite: PHY 1002.

2002. Observational Astronomy II/(3).S.
A study of advanced techniques of modern observational astronomy. Lecture topics include solid state (video) imaging hardware, image processing techniques, and astronomical spectroscopy. Observations will be conducted at the campus observatory, emphasizing the use of the techniques studied in the lecture. Lecture two hours, laboratory two hours. Prerequisite: PHY 2001.

2010-2020. Intermediate Physics I-II/(4-4).F-S.
A study of basic formulations and concepts in classical physics, especially mechanics, static and dynamic electricity and magnetism, but also heat, light, sound and modern physics. Calculus, vector methods and computer techniques are used. Intended primarily for students majoring or minoring in physics. Prerequisites: PHY 1104 or 1151 and for PHY 2010: MAT 1120; for PHY 2020: MAT 2130. Lecture four hours.

2210. Intermediate Physics Laboratory/(2).S.
A course designed for physics majors emphasizing experimental techniques, measurements, data and error analysis, experiment planning and evaluation, and report writing. Intermediate classical experiments with both oral and written reports. Lecture one hour, laboratory two hours. Corequisite: PHY 2020.

2500. Independent Study/(1-4).F;S;SS.

2630. Analog Circuit Analysis/(3).F.
DC and AC circuit analysis, discrete passive and active components. Included are diodes, transistors and operational amplifiers. Thevenin's and Norton's theorems. Use of common electronic instrumentation. Lecture two hours, laboratory three hours. Corequisite: PHY 2010 or consent of instructor.

2700.* Computer Interfacing/(3).F.
An introduction to the basic principles of computer interfacing and machine language programming. Topics to be covered include analog to digital, digital to analog, voltage to frequency conversion, data transmissions and applications of these topics using departmental microcomputers. Prerequisites: PHY 1700 or 1701 and PHY 1104 or 1151.
*Offered in even-numbered years.

3000.* Microcomputer Methods in Physics/(2).F.
A course designed to acquaint the student with the uses of microcomputers in physics calculations. Applications will be selected from the areas of mechanics, electricity and magnetism, thermal physics, optics and modern physics. Prerequisites: PHY 1701 (or equivalent) and MAT 1120; corequisite: PHY 2010.
*Offered in odd-numbered years.

3010. Classical Mechanics/(3).F.
A study of classical problems in mechanics. Topics include motion in noninertial reference frames, par-

ticle systems and collisions, rigid bodies, and Lagrangian mechanics. Prerequisite: PHY 2010, corequisite: MAT 3130.

3020. Electromagnetic Fields and Waves/(3).S.
A study of electromagnetic theory, including the solution of electrostatics problems using Laplace's equation, fields in dielectric media, magnetic fields of steady and varying currents, and the development and application of Maxwell's equations. Prerequisites: PHY 2020, MAT 3130.

3100*. Astrophysics/(3).S.
A study of the astrophysical processes which occur in stars, nebulae and the interstellar medium. Topics to be covered include energy generation and transfer in stars, spectral line formation and stellar structure and evolution. Prerequisites: PHY 1002, PHY 1151, MAT 1120.
*Offered in even-numbered years.

3200. Astromechanics/(3).S.**
An introduction to classical and modern techniques in the study of orbiting celestial bodies. Lecture topics will include the solution of the 2-body problem with applications to comet orbits, the restricted 3-body problem, and solutions to the n-body problem. Laboratory sessions will deal primarily with computer simulations of orbits and solutions of orbits from limited data. Prerequisite: PHY 1103 or 1150; MAT 1120; experience in programming in either BASIC or FORTRAN. Lecture two hours, laboratory two hours.
**Offered in odd-numbered years.

3210-3211. Modern Physics I-II/(3-3).F-S.
An introduction to the theories and experiments of 20th century physics: special relativity; wave-particle duality; atomic structure; natural and artificial radioactivity. Elementary results from quantum theory will be applied to the solid state and the nucleus. Descriptive treatment of frontier topics such as particle physics, accelerators and superconductivity. Prerequisite: PHY 1151 or corequisite PHY 2010. Lecture three hours.

3230.* Thermal Physics/(3).S.
A study of the laws of thermodynamics and their applications. An introduction to kinetic theory and statistical mechanics is included. Prerequisites: PHY 1104 or 1151, and MAT 2130. Lecture three hours.
*Offered in odd-numbered years.

3350. Physical Science Investigations/(3).F;SS.
A course primarily for elementary education majors who choose their academic concentration in science. Simple demonstrations and laboratory experiments will emphasize a conceptual approach to the physical ideas usually introduced in the elementary science curriculum. Lecture two hours, laboratory two hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all physics majors seeking the B.S. degree and teaching certification in physics.

3530-3549. Selected Topics/(1-4).On Demand.
For example: Energy/(2), a survey course designed to provide an understanding of energy options on personal, national and global levels. The course explores fossil and nuclear fuel reserves, electric power production, and various energy alternatives, particularly solar energy. No prerequisite.

3630. Digital Electronics/(3).F.
A study of the basic concepts and circuits based on Boolean algebra as applied to modern-day digital equipment, especially microprocessors. Emphasis will be placed on integrated circuits TTL and CMOS sequential and combinational logic circuits and will include: gates, flip-flops, counters, shift-registers, multiplexers, decoders, and ROMS. Elements of digital logic design including simplification by Boolean algebra will be covered. The laboratory will consist of building TTL and CMOS circuits and examining their electrical and logic properties. Corequisite: PHY 2010 or consent of instructor. Lecture two hours, laboratory three hours.

3850. Environucleonics/(3).On Demand.
A study of the interaction of atomic and nuclear radiation with Man and his environment—with special emphasis on the technology of measurement and criteria for evaluation. Discussions of basic radiation properties and radiation detection as well as special analysis techniques such as neutron activation and X-ray fluorescence will be integral to the course. Prerequisite: PHY 1104 or 1151. Lecture three hours.

3851. Environucleonics Laboratory/(1). On Demand.
Laboratory investigation and skills development aligned with the methods of Physics 3850. Basic detection involving GM, gas flow and scintillation detector systems, pulse height analysis, statistical tests and treatment of data, utilization of neutron activation and X-ray fluorescence will be featured. Field trips may be required. Corequisite or prerequisite: PHY 3850. Laboratory three hours.

4210. Methods of Experimental Physics/(3).F.
Measurement theory, analysis, interpretation and evaluation of data, experiment design and scientific report writing. A limited number of advanced laboratory experiments will be performed which illustrate important concepts and methods. Literature searches, written reports and some oral reports will be required. Lecture two hours, laboratory two hours. Prerequisite: PHY 2210.

Senior/Graduate Courses

4510. Senior Honors Research and Thesis/(3).On Demand.
Independent in-depth research and preparation of a thesis on a significant topic in physics, directed by a member of the Department of Physics and Astronomy faculty. A thesis is presented orally and in writing to the department. Course grade assigned by the departmental honors committee. Required for graduation with honors in physics. A student who completes this course with a grade of B and who graduated with a GPA of 3.5 in physics courses will be graduated with "honors" in physics; with a grade of A and a GPA of 3.7 in physics a student will be graduated with "highest Honors" in physics. Prerequisites: GPA of at least 3.5 overall and 3.5 in physics courses. Approval of proposed research topic and methods by departmental honors committee, and assignment of research thesis advisor during the semester prior to enrollment in this course. Corequisite: PHY 4640. Open only to majors in physics during their final undergraduate semester.

4620. Optics/(4).S.
A study of classical and modern optical phenomena including geometrical, Fresnel and Fourier optics, lasers, fiber optics and optoelectronic devices. Lecture three hours, laboratory three hours. Prerequisite: MAT 3130. Corequisite: PHY 3020.

4630.* Electronics/(3).S.
A study of analog electronics. Topics include: operational amplifiers, wave-shaping circuits, transducers, optoelectric isolators and preamplifiers and power amplifiers necessary to interface input and output transducers to digital equipment. Lecture two hours, laboratory three hours. Prerequisite: PHY 2630.
*Offered in odd-numbered years.

4635. Advanced Microprocessor Interfacing and Robotics/(4).S.
A study of digital and analog circuits necessary to interface transducers and robotic manipulative devices to microprocessors. Lecture three hours, laboratory three hours. Prerequisites: PHY 2630 and 4735.

4640. Advanced Modern Physics/(3).S.
A study of quantum mechanics and its applications to statistical, solid state and nuclear physics. The major experimental and theoretical results that led to the development of the quantum theory are discussed in detail. Corequisites: PHY 3010-3020, 3210, and MAT 3130.

4735. Microprocessors/(3).S.
A study of the architecture and instruction sets of common microprocessors. Interfacing microprocessors to memory, input/output and support integrated circuits will be covered with an emphasis on techniques used in common microcomputers. The laboratory consists of interfacing and programming microcomputers using assembly and high level languages. Lecture two hours, laboratory three hours. Prerequisite: PHY 3630.

4820. Medical Physics/(3).F.
A study of the various applications of the principles of physics to functions of the human body. Topics include: mechanics of the skeleton, fluid mechanics and the cardiovascular system, electrical signals in the body and cardiology, light and vision, sound and hearing, radiation in diagnosis and therapy. Prerequisite: PHY 1104 or 1151. Lecture three hours.

4880. Special Topics in Physics/(3).On Demand.
A course devoted to a single topic.

4900. Internship/(3-12).F;S;SS.
Supervised work in applied physics in an industrial or other laboratory setting. Students must obtain approval of the departmental internship coordinator prior to enrolling. Graded on S/U basis only.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

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Department of Political Science/Criminal Justice (PS/CJ)

Joel Thompson, Chairperson

The purposes of the Department of Political Science/Criminal Justice are to prepare students to critically observe, analyze, and understand the complex political world in which they live; to prepare students to recognize and address the problems of our society which affect our governmental and criminal justice systems; and to encourage students to become knowledgeable, active citizens who play a role in the political processes of the nation and the world.

A major in political science leading to the Bachelor of Arts degree consists of 33 hours including PS 1100, 2100, 3115, and at least one course in four of the following areas (1). Theory and Methodology; (2) International Relations; (3) American Politics and Government; (4) Comparative Government; (5) Public Law and Judicial Behavior; (6) Public Administration; (7) Political Behavior; (8) Public Policy. The area in which any particular course may be credited is indicated by the third digit of the course number. For example, PS 3660 is credited to area (6) public administration. The remaining 12 hours are elective. To earn the Bachelor of Arts degree a student must complete six hours of the second year of a foreign language. Normally, an internship will not be offered for students seeking a Bachelor of Arts degree.

A major in political science leading to the Bachelor of Science (non-teaching) degree with a multidisciplinary concentration, consists of a minimum of 60 semester hours. This includes:

1. Core courses in political science consisting of PS 1100, 2130, 3115 and 21 semester hours of electives in political science.
2. A minimum of 30 semester hours in a career-oriented area with courses selected from several departments and disciplines. Core courses will be specified for each area with electives chosen with the consent of the advisor. Some suggested areas are public management; town, city and county management; political communications; public relations; political analysis; para-legal; and American political management.

   Statistics 3810 is required.

   Students must have written permission from the department chairperson prior to declaring this major.

Copies of each student's program of study must be on file in the Department of Political Science/Criminal Justice office prior to the student beginning that study.

A minor in Political Science consists of 18 hours including PS 1100 or 2100. The remaining 15 hours are elective but the courses must come from at least three of the areas of political science, as outlined above, and nine of the 15 elective hours must be taken at the 3000-4000 level.

The department also provides a concentration in political science for those majors in social science education seeking a Bachelor of Science degree and teacher certification. Refer

to index for that section. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Science criminal justice (BSCJ) degree consists of 57 semester hours including completion of CJ 1100, 2020, 3115, 3150, 3400, 3401, 3430, 3551, 4900; PS 1100; PSY 3351; and 12 semester hours of electives to be taken from a group of specified courses and approved by the advisor. In addition, STT 3810 is required.

To earn a Bachelor of Science in criminal justice degree a field experience in the form of an internship for 12 semester hours is required. This may be waived if the student has more than one year of successful work experience in a criminal justice agency. If it is waived, the student will complete 12 semester hours of approved criminal justice electives as a substitute.

A minor in criminal justice shall consist of eighteen semester hours including CJ 1100, 2020, 3430, 3551, and six hours of electives in criminal justice.

The Department of Political Science/Criminal Justice offers the Master of Arts and Master of Public Administration degrees. The department also provides concentrations in community, junior and technical college teaching/political science or secondary school teaching/political science for those majors in social science education seeking a Master of Arts degree. Persons interested in these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in political science (PS)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

1100. American National Government and Politics/(3).F;S;SS.
A study of the development and operation of the American national government, its powers, organization and policies.

1200. Current Political Issues/(3).F;S.
A study of the current political issues and problems facing the national government. Problems in such areas as labor, education, the economy, agriculture, equal rights, foreign relations and national security will be analyzed.

2100. Introduction to Political Science/(3).F;S;SS.
A study of political science as a discipline; the course is divided into two parts. The first part familiarizes the student with the scope and content of politics and introduces the main approaches used to study political phenomena. The second part applies the general knowledge acquired in the first part to the study of a selected number of actual political systems.

2130. State and Local Government/(3).F;S;SS.
An examination of the organization, problems and powers of state and local governments in the United States, focusing upon the responses of states, counties, and municipalities to needs caused by poverty, growth,and social change.

2160. Introduction to Public Administration/(3).F;S.
A general survey course aimed at introducing the student to the theory and practice of public administration. The course includes an introduction to organization, theory, personnel and financial administration and administrative responsibility. The principal focus is on American public administration, but some comparisons and illustrations from other administrative systems are included.

2500. Independent Study/(1-3).F;S;SS.

3110. Political Theory Through Sixteenth Century/(3).F.
An examination of political theory from approximately 300 B.C. through the sixteenth century. The political philosophers studied include Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Jean Bodin. Emphasis is placed on historical development of political philosophy. Offered alternate even years.

3115. Research Methods/(3).F;S.
An introduction to the logic and techniques of social science research, examination of the structure of scientific inquiry, methods utilized to analyze information, with emphasis placed upon the interpretation of that information. Required of majors. Prerequisite: STT 3810 or equivalent.

3120. International Politics and Foreign Policy/(3).F;SS.
A study of the goals of foreign and national security policy and of the means by which they are achieved.

3130. American Political Parties and Interest Groups/(3).F;SS.
A study of the organization, tactics and functions of political parties and interest groups. A comparison of goals and methods of influencing public policy ranging from the normal to the revolutionary. Campaigning techniques discussed.

3150. The Judicial Process/(3).F.
An examination of the development and powers of the judiciary as seen through selected cases; and an examination of the operation and behavior of the courts and their personnel.

3210. Political Theory From the Seventeenth Century to the Present/(3).S.
A study of political thought from the seventeenth century to the present. Political philosophers studied include Hobbes, Locke, Rousseau, Burke, Hegel, Bentham, Marx, and Lenin. Emphasis is placed on the development of nationalism, capitalism, communism, socialism, and fascism.

3230. American Legislative Politics/(3).S.
An examination of the structure, functions and behavior of Congress and state legislatures, with emphasis on how composition, leadership, constituency role orientations and interest groups actively influence public policy. The legislative institutions are also viewed in relationship to larger environments and inclusive political systems.

3240. Comparative Politics/(3).F.
An examination of political system challenges and development patterns, with comparative reference to a number of systems including the USSR, Britain, France, and selected African and Asian countries.

3280. Public Policy Analysis/(3).F.
A study of the policy-making process, with special attention to the various factors that influence policy choices in the American government and an examination of the procedures for evaluating actual and alternative public policy programs.

3328. Socio-Political Environment of Leisure/(3).F.
An interdisciplinary approach to the study of the development of and participation in leisure activities. A practical approach through the integration of social and political phenomena. Prerequisite: junior standing. (Same as SOC 3328.)

3330. Urban Politics/(3).S.
A focus upon politics in urban areas. Topics include the problems of urban government, politics within metropolitan areas, community power structures, and decision-making structures.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3630. Appalachian Politics/(3).F.
An examination of the fundamental political problems and possibilities for the people in the Appalachian Region. The interrelationships of Appalachia with the larger American political system, political culture, and economy will also be studied. Offered alternate even years.

3660. Administrative Law/(3).F.
A study of the administrative powers and procedures in the United States and of the relevant experiences of some other democracies such as Britain, France with special attention to the legal and administrative methods of achieving a responsible bureaucracy and of balancing public interest with private rights.

4175. Public Opinion/(3).F.
An examination of attitude and opinion formation within and among publics; the role and impact of government secrecy on opinion; and a study of media as influence mechanisms.

4230. The Presidency and the Executive Branch/(3).F.
An examination of the central role of the American presidency in the political process. Emphasis is given to contemporary responsibilities of the President and of the major agencies supporting the President.

4270. Political Socialization/(3).S.
Focuses upon the process by which political behavior is learned; analyzes the role of socialization agencies throughout the life cycle; cross national comparisons; political elites and masses examined; discussion of counterculture trends.

4310. American Political Theory/(3).S.
A survey of American political thought from the colonial period to the present. Theorists discussed include Hamilton, Jefferson, Calhoun, and Dewey. Special emphasis is placed on the various modes of American political thought in the twentieth century.

4400. Selected Topics in Political Science/(1-3). On Demand.
An intensive examination of selected topics.

Senior/Graduate Courses

4540. Studies in Regional Political Patterns/(1-3). On Demand.
An examination of selected regions of the world which have common historical and cultural patterns influencing their political styles and capabilities. Topics may vary from semester to semester.

4550. Law and Society/(3).S.
An examination of the relationship between the values and culture of a society and the laws which it adopts; how law interacts with and responds to change in social values as seen by the courts through selected cases.

4560. Local Government Administration/(3).F;S.
Administrative process, management, personnel, budget and finance, and intergovernmental relations in local government. Prerequisite: Approval by Instructor.

4665. Public Management/(3).F;S.
A study of the organization and operation of government agencies and their role in policy making and implementation and an examination of the various concepts and theories pertaining to administrative behavior and to the performance of the basic tasks of management.

4720. International Organization and Law/(3).S.
An examination of the goals and structures of multinational organizations created to solve problems between nations, and the ways in which disputes between nations are settled.

4900. Internship in Public Affairs/(3-12).F;S;SS.
Field work in government, community, professional offices and agencies and involvement in problem solving in these offices and agencies. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Courses of instruction in criminal justice (CJ)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

1100. Introduction to Criminal Justice/(3).F;S.
A study of the development and operation of the criminal justice system in the United States. Included will be an examination of the components which make up the criminal justice system, their roles and responsibilities as a part of the system.

2020. Police Process/(3).S.
An examination of social and historical settings of the police; police role and career; police discretion; police values and culture; organization and control.

2050. Introduction to the Legal System/(3).S.
An overview of the development of law and law as an instrument of social control; an examination of the different types of law and the nature of each; the framework within which the American legal system operates; an introduction to the basic terminology of law and the judicial system and how to use the library resources dealing with the study of the legal system.

2500. Independent Study/(1-3).F;S;SS.

3060. Crime Prevention/(3).F.
A study of comprehensive crime prevention involving neighborhood and urban design, community action, law enforcement practices, and environmental engineering.

3080. Security Systems/(3).S.
An examination of the role of security and security industry in criminal justice; the administrative, personnel, and physical aspects of the security field; loss prevention management in proprietary and governmental institutions; and variations in physical security systems.

3115. Research Methods/(3).F;S.
An introduction to the logic and techniques of social science research, examination of the structure of scientific inquiry, methods utilized to analyze information, with emphasis placed upon the interpretation of that information. Required of majors. Prerequisite: STT 3810 or equivalent.

3150. The Judicial Process/(3).S.
An examination of the preadjudication and adjudication stages of the criminal process, the persons involved in the process, and the forces that influence the actions of the decision makers.

3250. Juvenile Justice/(3).F.
Legal and philosophical basis for a separate juvenile justice system, with a focus on juvenile rights and will include such topics as the police role in delinquency, due process, venue, adjudication and disposition hearings, and confidentiality in the juvenile process.

3305. Forensic Anthropology/(3).S.
Forensic anthropology is the application of anthropological techniques to solving criminal cases. Instruction will be given in the application of archeological techniques to crime scene investigation and removal of physical evidence from that scene. The major thrust of the course, however is the study of human physical remains in order to provide a positive identification of the victim. This includes determination of the sex, age, race, stature, and other identifying characteristics of the subject. The class will consist of thirty hours of lecture and thirty hours of laboratory instruction for the semester. (Same as ANT 3305.)

3330. Social Deviation/(3).F;S.
The course explores the social causes of and explanations for deviant behavior. The course emphasizes theoretical explanations of social deviation illustrated with substantive examples such as homosexuality, addictive behavior, alienation and others as they occur in a social context. (Same as SOC 3330.)

3400. Criminology/(3).F;S.
Study of origins and purposes of criminal law; survey of the various theoretical approaches to the study of crime causation; examination of various categories of criminal behavior including violent crime, occupational crime, political crime, criminal sexuality; and an overview of the criminal justice system which seeks to deter, convict and punish offenders. (Same as SOC 3400).

3401. Abnormal Psychology/(3).F;SS.
The study of individuals and groups who demonstrate atypical behaviors. This may include historical definitions of abnormality, standard psychiatric nosology and etiology, prevention and treatment of maladaptive behaviors. The concept of ultra-normal behavior may also be explored. (Same as PSY 3401.)

3430. Corrections/(3).F;S.
A study of the history and development of the adult correctional system as part of the larger adult criminal justice system. Includes overview of the criminal justice system, a review and analysis of theories of punishment, a study of institutional treatment in a total institution and the roles of inmates and staff, and a study of alternatives to incarceration such as parole and probation. Prerequisite: SOC 3400 or 3435 or permission of instructor. (Same as SOC 3430).

3435. Delinquency and Juvenile Corrections/(3).S.
A study of the history and development of the juvenile correctional system as part of the larger juvenile justice system. Includes definitions of delinquency, a survey of various theoretical approaches to delinquency causation and punishment, a comparison of the juvenile and adult systems of correction and an overview of the special problems of juvenile offenders. (Same as SOC 3435).

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading on S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.
An opportunity to study a special topic or combination of topics not otherwise provided for in the criminal justice curriculum. May be repeated for credit when content does not duplicate.

3551. Criminal Law/(3).F;SS.
An introduction to the basic concepts of criminal law, definition of crime and defenses, function and purposes of substantive criminal law, limits of the criminal law, case study approach.

3552. Criminal Procedure/(3).S.
An analysis of constitutional limitations from arrest to release in the administration of criminal justice, including arrest, search and seizure, interrogation, identification procedures, and post conviction relief, case study approach.

3555. Private Security Law/(3).F.
A study of the law applicable to the private security industry and personnel including regulation, licensing, powers, duties, responsibilities, civil and criminal liability of private security companies and personnel.

4020. Contemporary Police Issues/(3).S. (alternate years).
A examination of current social, legal, and organizational issues in contemporary law enforcement.

Senior/Graduate Courses

4550. Law and Society/(3).S.
An examination of the relationship between the values and culture of a society and the laws which it adopts and how law interacts with and responds to change in social values as seen by the courts through selected cases.

4580. Private Security/(3).F.(alternate years).
An examination of unique security problems in establishments, industrial establishments, universities and colleges; a review of private security regulatory boards, licensing, registration of private security businesses and personnel.

4670. Crime Analysis and Criminal Justice Planning/(3).S.
An examination of crime analysis-functions, methodologies, capabilities, and limitations; an examination of the function of planning in the criminal justice system on the national, state and regional levels and within local agencies. Offered alternate years.

4700. Applied Behavior Management/(3).F;S.
The application of operant contingency management principles to personal, interpersonal, and learning problems. (Same as PSY 4700)

4900. Internship in Criminal Justice/(3-12). F;S;SS.
Field work in a criminal justice agency, office or institution and involvement in problem solving in these agencies and offices. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Psychology (PSY)

James Long, Acting Chairperson

The Department of Psychology is the sole agency in the university with responsibility for developing and maintaining undergraduate and graduate curricula in psychology, for providing instruction to nonpsychology students who enroll in psychology courses either as a requirement or as an elective, and to psychology students as a part of their major or minor. The department is committed to the belief that an understanding of the mechanisms of human and animal behavior contributes to a liberal education and forms the foundation for professional practice of psychology.

Consistent with this mission, the department seeks to fulfill the following objectives:

1. To provide students, majors or non-majors, with excellent instruction in psychology.
2. To prepare students for specialization in psychology, so that they can function as bachelor level paraprofessionals, master level professional psychologists or continue training toward doctoral level competence.
3. To create interest in psychology—an interest that will be paralleled by a growing competency in the discipline.

4. To provide future teachers with sound psychological principles to underlie the teaching methodology.
5. To advance psychology as a science and as a means to promote human welfare.

Bachelor of Arts degree

The Bachelor of Arts degree consists of 36 semester hours including PSY 1200, 3659, 3661, 3662, 4658, and two courses from each of the following groups:

Group I—Psychology 2202 or 3654; 4650, 4660
Group II—Psychology 3351, 3400, 3401

An additional eleven hours of psychology electives are required.

Bachelor of Science degree

The Bachelor of Science degree (non-teaching) consists of 60 semester hours, 36 semester hours in the major and 24 semester hours in a psychology-related multidisciplinary concentration. The specific requirements are twofold.

1. The core psychology requirements listed above for the BA degree.
2. The multidisciplinary concentration consists of a minimum of 24 semester hours in courses in various other departments and approved by the departmental advisor. Examples of career concentrations are vocational rehabilitation, mental health paraprofessional, child development, and human resource management. A departmental advisor must approve the student's program of study before admission to the B.S. program.

Psychology majors can elect BIO 4601 as major credit towards the B.A. or B.S. in psychology.

Minor in psychology

The minor in psychology consists of 15 semester hours in psychology, including PSY 1200. Students are encouraged to consult with departmental advisors to plan their courses to complement their major course of study.

Psychology honors program

The department offers honors courses on the undergraduate level to students who have distinguished academic records. Credit earned in honors courses may be applied toward the major, the minor, or the electives required for graduation. To graduate with "honors in psychology," a student must be recommended by the departmental honors committee and meet the criteria for such consideration, a minimum GPA of 3.5 in psychology and successful completion of the honors sequence and a senior honors thesis. The honors sequence consists of 6 semester hours of honors courses to be selected from the following: PSY 1200 (honors), 2510, 3510, 4655. A student may substitute one of the following courses for one of the above courses if the student satisfactorily completes an honors contract in the selected course (the contract will be made between the student and the professor teaching the selected course): PSY 2202, 3351, 3400, 3401, 3654, 3661, 3662, 4650, 4658 and 4660.

Child Development Bachelor of Science degree

The departments of Home Economics and Psychology cooperate to offer the B.S. in child development. This multidisciplinary degree, conferred by the Department of Home Economics, requires 21 semester hours of core courses (HEC 2201, 3101 and 4100; and PSY 2205 and 3303) and courses in one of the two areas of concentration: psychology or home economics. Students will be advised in their department of concentration.

Master of Arts degrees in psychology

The Department of Psychology offers a Master of Arts in psychology general-theoretical, which requires 31 semester hours and a thesis; a Master of Arts in rehabilitation psychology, with a concentration in health psychology requiring 45 to 48 semester hours; a Master of Arts degree in industrial-organizational psychology, which requires 46 semester hours; and a Master of Arts degree in clinical psychology, which requires a thesis and 49 semester hours. The Master of Arts in school psychology (level II), requires 72 semester hours. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in psychology

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

PSYCHOLOGY HONORS (PSY)

1200. General Psychology Honors/(3). Freshman/Sophomore.F;S.
A section of general psychology 1200. Survey of basic principles and selected topics in psychology. Development of original critical thought in writing and discussion. Enrollment by invitation of the department or by application.

2510. Honors Colloquium/(3).F.
In depth study of selected topic(s) in psychology, encouraging independent scholarship in writing and discussion. Enrollment is by invitation or application. This course may be taken at both the sophomore and junior level for credit.

3510. Honors Colloquium/(3).F;S.
In depth study of selected topic(s) in psychology, encouraging independent scholarship in writing and discussion. Enrollment is by invitation or application. This course may be taken at both the sophomore and junior level for credit.

4510. Senior Honors Thesis/(3).On Demand.
Independent study and research for an honors thesis. It will be directed by a member of the department and graded by departmental committee in an oral examination. The departmental honors committee will approve the thesis topic and methods and also select the thesis advisor during the semester prior to enrollment in this course. Enrollment is by invitation only. Prerequisite: Completion of an approved honors sequence, including honors colloquium, with at least a grade of B in each. By departmental approval, the 6 hour honors prerequisite may be filled by completing 6 hours of Honors Colloquium; Advanced General Psychology and one Honors Colloquium, or exceptional performance in General Psychology 1200 and Honors Colloquium.

PSYCHOLOGY (PSY)

1200. General Psychology/(3).F;S;SS.
Introduces students to the study of human and animal behavior, with emphasis upon basic principles and research. Core areas include historical overview, methodology, biological foundations, learning, sensation and perception. Other areas are sampled.

PSY 1200 IS PREREQUISITE TO ALL PSYCHOLOGY COURSES EXCEPT AS NOTED UNDER 3301 AND 3302 BELOW.

2202. Principles of Learning/(3).F;S.
A survey of classical and modern theories and evidence on elementary learning phenomena in humans and animals. Emphasis is upon characteristics of Pavlovian and operant learning paradigms and resultant performance.

2203. An Introduction to and Procedures in the Helping Professions/(3).F;S.
Historical, philosophical, and legal aspects of the helping professions. Emphasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed.

2205. Psychology of Parenting/(3).F;S.
The study of social, multicultural, cognitive and behavioral principles in psychology as applied to the theory and practice of parenting.

2500. Independent Study/(1-3).F;S;SS.

3301. Psychology of Human Growth and Development/(3).F;S;SS.
A study of human physical, cognitive, social and emotional development from conception through maturity. Students accepted into a teacher education program (juniors or above) may enroll without prerequisite.

3302. Educational Psychology/(3).F;S;SS.
An analysis of the principles of classroom learning. The major concepts, theories, and research in the acquisition of knowledge and interpersonal social skills are emphasized. Special attention is given to the educational application of these principles. Students accepted into a teacher education program (junior level or above) may enroll without prerequisite.

3303. Child Psychology/(3).F.
An intensive study of theory and research focusing upon physical growth and development and social, emotional and intellectual behaviors from conception through adolescence. Prerequisite: PSY 3301 or equivalent.

3304. Psychology of Gender/(3).On Demand.
An examination of selected psychological theories of gender effects and related research. Attention will be placed on the cognitive, biological and sociocultural explanations of these effects.

3351. Social Psychology/(3).F;S;SS.
Social psychology deals with group influences and their impact upon individual behavior and perceptions. Topics may include cognitive dissonance, illusory thinking, attribution research, cult phenomena, conformity, obedience, authoritarianism, achievement motivation, aggression, altruism, prejudice, sex and group differences, and more.

3400. Psychology of Personality/(3).F;S;SS.
A study of personality from both historical and contemporary perspectives. Emphases will be placed upon various theoretical positions and upon research.

3401. Abnormal Psychology/(3).F;S;SS.
The study of individuals and groups who demonstrate atypical behaviors. This may include historical definitions of abnormality, standard psychiatric nosology and etiology, prevention and treatment of maladaptive behaviors. The concept of ultra-normal behavior may also be explored. (Same as CJ 3401.)

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Psychology major; junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.
Such topics as hypnosis, ethology, psychotherapy, sex role differences, verbal learning, philosophical issues have been taught.

3654. Cognitive Processes/(3).S.
A survey of classical and modern theories of human thought processes as they relate to performance in memory tasks, concept learning, and problem solving.

3659. Computer Literacy: Psychology/(1).F;S.
Introduction to microcomputer use in psychology. Students will develop competence with DOS, word processing programs, spreadsheets, statistical software packages and graphics. Corequisite: PSY 3661.

3661. Research Methods I: Basic Concepts/(3).F.
Includes literature search, report writing, introduction to basic research/design concepts such as variables, relationship, confounding, levels of measurement, observational strategies (naturalistic observation; questionnaires; surveys; tests; etc.), and the use of descriptive, correlational, and inferential statistics. Students will complete several demonstration studies and apply what they have learned in data collection, analysis, and report-writing. Corequisite: PSY 3659. Prerequisite: STT 3810.

3662. Research Methods II: Experimental/(3).S.
Includes experimental design and control procedures; small-n experiments; quasi-experimental design, and appropriate statistical analyses. Each student will be required to design, run, and submit a written report of a psychological experiment. Prerequisite: PSY 3661.

4001. Research Assistant/(1).F;S;SS.
A supervised experience doing psychological research on a faculty member's project under the direction of a faculty member. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: psychology major. May be repeated for a total credit of three semester hours.

4002. Supervised Research/(1).F;S;SS.
A supervised experience doing psychological research under the direction of a faculty member. The project will be developed by the student in consultation with their supervisor and should be considered the student's project. Prerequisite: PSY 3662; psychology major.

Senior/Graduate Courses

4562. Psychology of Aging/(3).S.
Focus on the psychological changes associated with the process of aging. Particular attention will be devoted to cognitive and personality factors—stressing the elements of consistency and change in each. An attempt will be made to separate myth and reality as each area of functioning is discussed. Graduate students will be expected to become involved in an area of research at some level.

4640. Seminar in Critical Issues in Psychology/(1-3).On Demand.
Contemporary research issues in psychology. Opportunities to consider a particular aspect of research in depth. Topics vary from year to year depending upon the interests of students. Prerequisite: A major or minor in psychology and permission of instructor.

4650. Physiological Psychology/(3).F.
An examination of the physiological correlates of behavior. Emphasis is placed on sensations, emotions, memory, and the basic drives.

4651. Perception/(3).S.
A survey of classical and contemporary theories of perception. Visual and auditory systems are emphasized.

4653. Medical Aspects of Disability/(3).F;S.
Medical aspects of major physical disabilities with implications for rehabilitation. Opportunities will be provided for first-hand observation and experience in an institutional setting. Prerequisite: PSY 4650.

4655. Advanced General Psychology/(3).F;S.
An examination of selected contemporary topics in psychology and a review of the major areas of psychology. Prerequisite: 15 hours of psychology or permission of the instructor.

4658. History and Systems of Psychology/(3).F;S.
An analysis of the philosophical and empirical antecedents of modern psychology and the contemporary systems which emerge from these.

4660. Psychological Tests and Measurements/(3).S.
A critical survey of measuring devices in clinical, counseling, and educational practice emphasizing theory, development and standardization. Laboratory practice in methods of appraisal to include their administration, scoring and interpretation. Prerequisite: STT 3810.

4670. Industrial Psychology/(3).F;S.
A survey of potential and actual applications of psychological principles and methods to the problems of business, industrial and other organizations. Emphasis on personnel/human resources management functions.

4671. Organizational Psychology/(3).F;S.
A survey of potential and actual applications of psychological principles and methods to the problems of business, industrial and other organizations. Emphasis on organizational communication, the dynamics of work groups and individual motivation.

4700. Applied Behavior Management/(3).F;S.
The application of operant contingency management principles to personal, interpersonal, and learning problems. (Same as CJ 4700.)

4900. Internship: Field Work in Applied Psychology/(3-12).F;S.
Supervised placement in a setting which provides appropriate opportunity for observing and practicing psychological skills. Among the settings in which such skills could be practiced are mental health centers, hospitals, rehabilitation centers, and departments in which personnel services are coordinated. Students must seek approval of their advisor in the psychology department before enrolling. Graded on S/U basis only. Prerequisite: psychology major; approval of major advisor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

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Department of Sociology and Social Work (SOC/SW)

Howard Nixon, Chairperson

The Department of Sociology and Social Work seeks to provide a rich fund of knowledge about social life and the social causes and consequences of human behavior from a variety of theoretical perspectives. Within the liberal arts, sociological and social work traditions, and through teaching, scholarly activity and service, we seek: to clarify social values and goals; to view holistically the individual, the family, the group, the organization, and the community; and to provide to both undergraduate and graduate students from our own and other disciplines a basic knowledge about and understanding of our society and its people. Through the study of social structures and processes, and the practical application of these studies, students may learn to identify the diverse social forces at work in society, to appreciate these complex workings, and to participate more knowledgeably and skillfully in careers, life, and society.

Sociology

A major in sociology leading to the Bachelor of Arts degree consists of 36 semester hours including SOC 1000, 3885, 3950, 4885, and 24 semester hours of approved electives in sociology. In addition, STT 3810 and ANT 1215 are recommended. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education.

The bachelor of science (non-teaching) degree with a major in sociology and a career-oriented, multidisciplinary concentration consists of a minimum of 60 semester hours to include the following:

1. A major in sociology with a minimum of 30 semester hours. This will include core courses consisting of SOC 1000, 3885, 3950, 4885; 9 to 12 semester hours of sociology courses that are specifically designated according to the area of emphasis; 6 to 9 semester hours of electives in sociology. In addition, MAT 1020 should be the course taken to fulfill the mathematics requirement in general education.
2. A multidisciplinary concentration with a minimum of 30 semester hours. The courses will be selected from several departments and disciplines. Core courses will be specified for each area of emphasis and any electives will be chosen with the consent of the advisor. Some suggested areas are corrections, evaluative research and gerontology. Other areas may be arranged.

Copies of each student's individual program of study, signed by the department chairperson, must be on file in the department office prior to the student's declaration of major.

A minor in sociology consists of 18 semester hours including SOC 1000 and 15 semester hours of electives in sociology.

A minor in gerontology consists of 15-18 semester hours. The student's individual program of study must be approved by the director of the gerontology program.

For the section on the curriculum for a major in social science education with concentration in sociology leading to the Bachelor of Science degree and teacher certification, refer

to the index. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Master of Arts Degree

The Department of Sociology offers three graduate Master of Arts degrees. These include a Master of Arts degree (without teacher certification) in sociology, a Master of Arts degree in sociology, education with a concentration in community, junior, or technical college teaching, and a Master of Arts degree in social science, education with a concentration in sociology. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Social work

The Bachelor of Science degree in social work prepares students for the entry level of professional practice in a variety of public and private social welfare agencies, organizations, and programs designed to enrich the quality of life and to improve the social functioning of individuals, families, groups, and communities served. Study includes the social, economic, and political processes involved in the development and change of social welfare institutions, the dynamics of human behavior, and the interventive methods and their applications to a wide variety of situations and clients. Thirty-nine hours of class and field instruction in social work and thirty-three semester hours of specified courses in the social sciences, the humanities, and natural sciences are required.

Degree requirements for a Bachelor of Social Work (B.S.W.) are: SW 2010, 2020, 2630, 3000, 3330, 3615, 3700, 4110, 4230, 4340, 4260, 4263, and 4400; in addition, one social work elective chosen from SW 4350, 4358, 4360, 4365.

Cognate courses required for the degree are: BIO 1101-1102 or equivalent; ANT 1215; PS 1100; P&R 1100 or 2000; SOC 1000, 2000, 3885 and 4885; PSY 1200; PSY 3401 or SOC 3330.

Graduates have full professional status and may be granted advanced standing in two-year master's degree programs in social work.

A minor in social work requires 18 semester hours: SW 2010, 2020, 2630, and 3000, and two social work electives chosen from among the following: SW 4350, 4358, 4360, and 4365. The plan for the minor should be approved by the social work degree director.

The primary purpose of the minor is to complement a student's major. It does not prepare the student for social work practice.

Courses of instruction in sociology (SOC)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1000. Introduction to Sociology/(3).F;S;SS.
An introduction to the field of sociology and the sociological perspective. Gives students a basis for understanding how society operates. Topics include, groups, family, bureaucracies, social class, power, deviance, minority relations, community and social change. Required for majors and minors.

1110. Marriage and Family Relations/(3).F;S.
May not be counted toward a major or minor in sociology. Analysis of the forms and functions of family relationships; sex roles, marital choice, procreation, and socialization; history of American family patterns and effects of contemporary social changes. This course is for freshmen and sophomores. Others must have permission of instructor.

1530-1531. Selected Topics/(1-4).On Demand.
This course cannot be applied to the sociology major or minor or applied to general education requirements.

2000. Social Problems in American Society/(3). F;S.
A survey course which examines the major social problems in America today, such as poverty, racism, sexism, aging, militarism and war, environmental abuse, crime, mental illness, drug abuse and alcoholism.

2500. Independent Study/(1-4).F;S.

2850. Sex and Gender Roles/(3).F;S.
This course looks at sex and gender roles in contemporary society with emphasis on the changing roles of women. Topics include socialization, work, law, interpersonal power, family roles and sexuality. Other topics may be added at the request of the students or initiative of the instructor.

3100. Gerontology/(3).F.
This course will provide a broad overview of the physical, psychological, social, and cultural aspects of aging. Major concepts, issues, and current research on aging will be analyzed, and current and proposed federal, state, and local programs impinging on the aged will be examined.

3200. Sociology of the Soviet Union/(3).S.
A survey course using sociological concepts to describe the social, economic, political and cultural life of the many ethnic and national groups of the USSR. An introduction to the study of Soviet society. Gives students a basis for understanding how Soviet society operates. Topics include social institutions, bureaucracy, social class, power, deviance, minority relations and social change.

3328. Socio-Political Environment of Leisure/ (3).F.
An interdisciplinary approach to the study of the development of and participation in leisure activities. A practical approach through the integration of social and political phenomena. Prerequisite: junior standing. (Same as PS 3328.)

3330. Social Deviation/(3).F;S.
The course explores the social causes of and explanations for deviant behavior. The course emphasizes theoretical explanations of social deviation illustrated with substantive examples such as homosexuality, addictive behavior, alienation and others as they occur in a social context. (Same as CJ 3330.)

3400. Criminology/(3).F;S.
Study of origins and purposes of criminal law; survey of the various theoretical approaches to the study of crime causation; examination of various categories of criminal behavior including violent crime, occupational crime, political crime, criminal sexuality; and an overview of the criminal justice system which seeks to deter, convict and punish offenders.

3430. Corrections/(3).F;S.
A study of the history and development of the adult correctional system as part of the larger adult criminal justice system. Includes overview of the criminal justice system, a review and analysis of theories of punishment, a study of institutional treatment in a total institution and the roles of inmates and staff, and a study of alternatives to incarceration such as parole and probation. Prerequisite: SOC 3400 or 3435 or permission of instructor.

3435. Delinquency and Juvenile Corrections/ (3).S.
A study of the history and development of the juvenile correctional system as part of the larger juvenile justice system. Includes definitions of delinquency, a survey of various theoretical approaches to delinquency causation and punishment, a comparison of the juvenile and adult systems of correction and an overview of the special problems of juvenile offenders.

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.
An opportunity to study a special topic or combination of topics not otherwise provided for in the sociology curriculum. May be repeated for credit when content does not duplicate.

3600. Medical Sociology/(3).On Demand.
A study of health care, medical settings, and the medical professions. Includes the creation and epidemiology of disease and illness, the structure of the health care industry, doctor-patient interaction, and major health care problems.

3700. Sociology of Sport/(3).On Demand.
This course examines the social significance of sport. Attention will focus on sport as an institution, social process, and its relation to social organization, race, gender, class, and major institutions such as family, education, mass media, government and economics. Students will be provided with an understanding of the impact of sport on culture and vice versa.

3750. Propaganda/(3).S.
A study of the media and techniques of propaganda as an instrument of public opinion formation. Concepts from political science and sociology will be used in an analysis of the formation and nature of public opinion and pressure groups.

3800. Sociology of War/(3).On Demand.
A study of the sociological effects of war on individuals, families, and communities. Topics that are covered include military conscription and the draft, the role of minorities in the military, pro-war and anti-war movements, readjustment problems of veterans, war crimes, the portrayal of war in film and music, ethnocentrism and cultural differences, general causes of war and conflict resolution.

3885. Research Methods I/(3).F.
Relationship of theory to research; research design, sampling procedures, application of research methodologies. Required of majors.

3950. Sociological Theory/(3).F;S.
This course examines the major theories that have contributed the most to our understanding of social behavior and human relationships. The course covers the early history of sociology as well as contemporary theories and recent trends. Required of majors.

4000. Religion and Society/(3).F.
A general introduction to a sociological perspective on religion. Examines the social meaning and consequences of religion in both its religious and secular roles in modern society. Alternate years.

4100. The Community and Urbanization/(3).S.
Analysis of the structure and functioning of rural and urban communities; social organization and change within and among communities.

4300. Population and Society/(3).S.
Systematic study of the growth and change of populations in relation to their cultural setting; trends in fertility, mortality, migration, composition, and population policies, national and international implications of recent population growth trends. Alternate years.

4400. Collective Behavior and Social Change/(3).On Demand.
A study of the forces that impact upon society and the delivery of services by governments either through revolution or orderly directed change; the study of the strategy, tactics and effects of change and who affects change.

Senior/Graduate Courses

4560. Race and Minority Relations/(3).F;SS.
Examination of intergroup relations, including racial, ethnic, and women's issues; the bases of conflict, accommodation, and assimilation; the nature and consequences of prejudice and discrimination; evaluation of proposals for reduction or elimination of prejudice and discrimination.

4570. The Addictive Process/(3).F;SS.
An examination of sociological and psychological contributants to alcohol and drug addiction and abuse in our society. The addictive process and its impact on the individual and society are described, as well as treatment and preventive program efforts. Students will also examine their own feelings and attitudes about alcohol and drug use and abuse. Prerequisite: SOC 1000 or permission of instructor.

4600. Political Sociology/(3).F.
An analysis of the social influences on political behavior, the relationship between political and other institutions, the uses and abuses of political power.

4750. Social Stratification/(3).S.
A study of the distribution of wealth, power, privilege, and prestige. The course examines conservative, liberal, and radical explanations of human inequality. Cross-cultural and comparative analysis is used to focus on various problems of inequality and their consequences.

4800. Sociology of the Family/(3).S.
The origin and development of the family as a social institution; the contemporary family in various cultures; the relationship of the family to the economic, political, religious, and educational institutions in American society.

4885. Research Methods II/(3).S.
Data preparation and analysis, computer applications, presentation and interpretation of findings. Required of majors. Prerequisite: SOC 3885 or permission of instructor.

4900. Field Experience: Internship (variable credit)/F;S;SS.
Supervised placement in a setting which provides an opportunity to observe and practice sociological skills. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Courses of instruction in social work (SW)

2010. Professional Social Work in Contemporary Society/(3).S.
Provides the student with essential beginning and basic knowledge about social work as a profession and social work practice in a changing society. Prerequisite: At least second semester freshman standing.

2020. The American Social Welfare System/(3).F.
An introduction to the concept of social welfare and to the public and private network of social programs, systems and services which exist, formally and informally, to resolve or ameliorate those personal and social problems which interfere with the fulfillment of basic human needs. Analysis of major issues, problems, strengths, and philosophical values related to the development, functioning, and evaluation of social welfare programs. Agency visit required. Prerequisite: Sophomore standing and SOC 1000 or 2000.

2500. Independent Study/(1-4).F;S.

2630. Human Behavior and the Social Environment/(3).S.
The purpose of the course is to prepare the student for skillful assessment of human functioning in varied social contexts. Systems theory is used as an organizing framework for the selection and use of relevant social sciences concepts in providing the basis for developing strategies for social work intervention. Prerequisite: SOC 1000, PSY 1200, and BIO 1102 or its equivalent.

3000. Basic Skills for the Social Professions/(3).S.
Knowledge and some practice of basic social work skills as they may be helpful to other related professions, including professional communication, interviewing, problem-identification, purposeful utilization of community resources, purposeful observation, and record-keeping. Prerequisite; SOC 1000 and PSY 1200 or consent of instructor.

3330. Social Welfare Policies, Programs, and Issues/(3).F.
Examines policies and issues associated with existing social welfare delivery systems, emphasizes policy formulation and assessment of alternative strategies for establishing and meeting social goals. Influence of social work principles, values, and practice on social welfare policies and issues. Prerequisites: SW 2010, 2020, 2630, and PS 1100.

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3615. Foundations of Social Work Practice/(4).F.
Generic social work knowledge and skills useful in the problem-solving process with individuals, families, groups, organizations, and communities: the generalist approach. Emphasis on the conscious use of self, and an understanding of effective and ethical social work practice in a multi-cultural, multi-ethnic society. Two lectures, one laboratory session, minimum of 4 hours per week. Prerequisite: admission to the practice sequence.

3700. Social Work Practice I/(3).S.
Application of knowledge of human behavior in the social environment, the social welfare system, social policy, and beginning helping skills in intervention to methods of social work practice with emphasis on microsystems. Simulation of functions and task roles. Prerequisite: SW 3615. Prerequisite or corequisite: PSY 3401 or SOC 3330. SW 4110 may be taken concurrently.

4110. Social Work Practice II/(3).F.
Continuation of knowledge and skills applications to social work practice with focus on mezzo and macrosystems. Prerequisite or corequisite: SW 3700.

4230. Field Instruction I/(4).F;SS.
Supervised placement in selected human services agencies to integrate theory with practice and prepare for professional responsibilities. Approx-

imately 240 hours required in social agency setting. Graded on an S/U basis. Prerequisite: admission to the practice sequence and all cognates and social work required courses except SW 4110 and/or the social work elective.

4260. Field Instruction Seminar I/(1).F.
This seminar will meet once each week to bring together students from different field placements. The students are encouraged to share a range of learning problems encountered in different work settings in order to integrate academic concepts and theory with the realities of social work practice experienced in the field setting. Corequisite: SW 4230.

4263. Field Instruction Seminar II/(1).F;S.
Continued weekly seminar to bring together students from different field placements for discussion and integration of field learning. Corequisite: SW 4340.

4340. Field Instruction II/(4).F;S.
Continued placement in selected human services agencies under professional supervision. Approximately 240 hours required in social agency setting. Graded on an S/U basis. Prerequisite or Corequisite: SW 4230.

4350.* Social Welfare in Rural and Urban Contexts/(3).F.
This course compares and contrasts social services with diverse populations and the experience of the social work professional in differing environments. The Southern Appalachian populations are highlighted as one example of rural diversity, with efforts to sensitize students to diverse value sets and pertinent social welfare policy and issues. Prerequisite: SW 2010, 2020 and 3330 or consent of instructor.
*Offered in alternate years.

4358.* Social Services With Children and Youth/(3).S.
An introduction to the field of child welfare and an overview of related social welfare services, this course will deal specifically with the role of the social worker in service delivery, and will examine relevant social policies and their effect on practice. Generalist knowledge, values and skills applied to child welfare programs and services. Prerequisites: SW 2020, 2630, and 3330 or consent of instructor.
*Offered in alternate years.

4360.* Social Services With Older Adults/(3).F.
Systematic study of social work approaches to provision of services to older persons in the context of gender, class, racial and ethnic groups, and culture. Focus on relevant social policies and services, and models of practice. Prerequisites: SW 2020, 2630, and 3330 or consent of instructor.
*Offered in alternate years.

4365.* Social Services With Troubled Families/(3).S.
An introduction to contemporary theories, methods and techniques employed by social workers to help troubled families cope with a wide range of problems including divorce, poverty, drugs and alcohol abuse, psychological and physical violence, and parent-child difficulties. Assists students to build on the strengths of families and to aid in the utilization of formal and informal helping networks. Prerequisites: SW 2020, 2630, and 3330 or consent of instructor.
*Offered in alternate years.

4400. Senior Seminar: Issues and Ethics for Practice/(1).S.
Discussions based on individual reading, research, and study of selected topics in social work, with focus on practice realities and professional issues. Helps student prepare to complete undergraduate professional and general educational experience and move into professional life. Prerequisite or Corequisite: SW 4263 and 4340.

4660. Human Sexuality and Family Living/(3).F;S;SS.
Information and concepts of sex education including physiological, social, psychological, and moral aspects of human sexuality will be studied. Such topics as dating, marriage, prenatal and postnatal care and interfamily relationships leading to reduction of stress on family members are also to be included. Emphasis will be placed on communication skills. (Same as HP 4660.)

4700. Death and Dying/(3).F;S;SS.
An examination of how dying, death, and grief are experienced, including how support can be given through helping relationships to those who are dying or experiencing bereavement. Consideration will be given to the issues of euthanasia, suicide, body disposition, and rites of passage, the relationship of death to life. Students will have the opportunity to explore personally the meaning of death, other experiences of loss, and the quality of life. (Same as HP 4700.)

For graduate courses (5000 and above) refer to the Graduate Bulletin.

The John A. Walker College of Business

Grant Davis, Dean
Kenneth E. Peacock, Associate Dean
Robert Cherry, Director of Graduate Studies

The College of Business has as its primary aim the development of future leaders for the business, industrial, and governmental communities. Through courses of instruction and other educational programs, an attempt is made to develop the analytical skill and decision-making ability of each student; to enhance one's understanding of economic concepts; to increase one's knowledge of business and educational practices and innovations; and to expand one's awareness of the role and function of industrial organizations.

Departments

The College of Business consists of the following six departments:

- Accounting
- Decision Sciences
- Economics
- Finance, Insurance and Real Estate
- Management
- Marketing

Degrees offered

Through the College of Business, students can obtain the following degrees:

1. Bachelor of Science in business administration (BSBA), with majors in accounting; banking; economics; finance; health care management; information systems; management; marketing; real estate and urban analysis; hospitality management; risk and insurance.
2. A Master of Business Administration (MBA).
3. A Master of Science in accounting.

The Department of Economics offers the following degrees through the College of Arts and Sciences:

1. Bachelor of Arts in economics.
2. Bachelor of Science in social science, education with a concentration in economics.

Academic Advising Services

Academic advising is available through the College of Business Undergraduate Advising Office. Individual and group advising sessions are offered to assist students with the selection of major, minor, and elective courses. Faculty and staff advisors offer support, encouragement and information about admission and graduation requirements. Students are urged to contact the College of Business Undergraduate Advising Office to meet with an advisor as soon as they declare a major in business and transfer their records from the General College or one of the degree-granting colleges.

Students are invited to use the advisement services at any time. However, neither advisement by a representative of the College of Business or transference of records to the College constitutes admission to the college.

Although academic advising is provided for all students, the final responsibility for meeting requirements for graduation remains with the student. Students should arrange to have a graduation check with the College of Business Undergraduate Advising Office at least two semesters before expected graduation. Applications for graduation should be completed in the Registrar's Office at the beginning of the term in which graduation requirements will be met.

To transfer records to the College of Business, a student must:

1. Complete at least 28 semester hours.
2. Obtain a cumulative grade point average of at least 2.0.
3. Complete ENG 1000 and 1100.
4. Contact the General College (OR the degree-granting college currently enrolled in) to declare a major.

To be admitted to the College of Business and to be eligible to enroll in 3000/4000 level courses, a student must:

1. Complete at least 60 semester hours.
2. Obtain a cumulative grade point average of at least 2.5. (*For TRANSFER STUDENTS, the 2.5 grade point average is effective for those students entering in the Fall of 1993.*)
3. Complete:
   a. ENG 1000 with a minimum grade of "C".
   b. ENG 2000 or pass the English Proficiency Test *if a transfer student.*
   c. ENG 1100.
   d. MAT 1030.
4. Complete the following College of Business prerequisite core courses with an overall grade point average of at least 2.0:
   ECO 2030, 2040, 2100
   ACC 2100, 2110
   CIS 2660
   FIR 2150

SPECIAL NOTE:

Enrollment by undergraduates in 3000 and 4000 level courses in the College of Business is limited to students admitted to the College of Business. In addition to college admission, listed course prerequisites must also be completed. Only admitted juniors may enroll in 3000 level courses and admitted seniors may enroll in 4000 level courses.

Specific 3000 and 4000 level courses which are required for business minors or other non-business majors may only be taken by students admitted to a degree-granting college. Only juniors may enroll in 3000 level courses and only seniors may enroll in 4000 level courses. In addition, listed course prerequisites must also be completed.

Bachelor of Science in Business Administration (BSBA)

In order for a student to earn the Bachelor of Science in Business Administration degree, the following requirements must be met:

1. Completion of a minimum of 122 semester hours (130 hours for the accounting major) with a cumulative grade-point average of at least 2.00, and a grade-point average of at least 2.00 on all work attempted in the College of Business at the 2000 level and above. A transfer student must have at least a 2.00 grade-point average on all work attempted in the College of Business at the 2000 level and above and complete at Appalachian a minimum of eight semester hours (14 hours for the accounting major) of courses in the major field of study.
2. Completion of:
   A. 48 to 50 semester hours of the university-wide general education requirements as outlined in the General College section. These must include ECO 2030, 2040, 2100; and MAT 1030.
   B. The 30 semester hours core in the College of Business as follows: ACC 2100, 2110; CIS 2660, POM 3650; FIR 2150, 3680; MKT 3050, MGT 3630, 4750; ECO 3100.
   C. A minimum of 24 semester hours (32 hours for the accounting major) in the College of Business. This includes the major requirements plus electives within the major at the 3000 level or above.
   D. An additional 18-20 semester hours of electives including: (At least nine semester hours must be 3000 level or above.)
      1. one of the three following courses—ENG 3100, COM 2101 or BE 3340. Accounting majors must take both ENG 3100 and COM 2101.
      2. nine additional semester hours taken outside the College of Business (they may be at any level), except for: accounting majors, who take four semester hours; and hospitality majors, who have no additional outside hours required since this program is interdisciplinary, and
      3. six-nine semester hours (taken inside or outside the College of Business).

      NOTE: Hospitality management majors complete nine to eleven semester hours of electives - at least six semester hours must be at the 3000 level or above.
3. No minor is required for the BSBA degree. However, a minor in international business is available for business majors (see index). Also, a minor can be completed outside the College of Business.
4. Completion of residence requirements.
5. Compliance with regulations concerning the settlement of all expense accounts.
6. Recommendation of the faculty.

The typical program of study for the BSBA

(accounting majors need eight additional hours in the major)

FRESHMAN

Fall		Spring	
ENG 1000	3	ENG 1100	3
Science	3-4	Science	3-4
HIS 1101	3	HIS 1102	3
Social Science elective	3	MAT 1030*	4
Humanities or business elective	3	PE	1
PE	1		14-15
	16-17		

SOPHOMORE

Fall		Spring	
ECO 2030 (counts as Soc. Sc. elective)	3	ECO 2040	3
ACC 2100	3	ACC 2110	3
FIR 2150	3	ECO 2100	3
CIS 2660	3	Humanities or communications Requirement	3
Humanities	3	Humanities	3
	15		15

To take junior and senior courses (3000-4000 level), the student must be admitted to the College of Business.

JUNIOR

Fall		Spring	
Core course	3	Core course	3
Core course	3	Core course	3
Core course	3	Major courses** & electives	9-10
Major course(s) or elective or Communications Requirement	6-7		15-16
	15-16		

Core courses at the junior year include ECO 3100, POM 3650, FIR 3680, MGT 3630, and MKT 3050.

SENIOR

Fall		Spring	
Major courses, and/or business or general electives	16	MGT 4750***	3
	16	Major course**	
		Electives in College of Bus.** or general elective	13
			16

Total 122 s.h. (130 s.h. for accounting majors)

*Students who do not place into MAT 1030 should start the recommended math sequence the first semester.

**Each major (except accounting) requires a total of 24 s.h. in addition to the core courses required of all business majors (listed above).

***Should be taken only after completion of all other business core courses (listed above)

Bachelor of Arts degree

In cooperation with the Department of Economics, the College of Arts and Sciences offers the Bachelor of Arts degree in economics. For the requirements for this major see the Department of Economics. For the requirements for this degree, refer to that section in the index.

College of Business Honors Program

The College of Business offers an upper level honors program for selected students who have distinguished themselves during the freshman and sophomore years. The program consists of a minimum of 15 semester hours of upper division core courses and an honors project during the senior year. Its purpose is to provide honors students with a more intellectually stimulating and broader range of academic experiences in a small classroom setting than can be provided in a traditional academic program. For additional information, contact the Director of Undergraduate Advising.

International business studies

The Walker College of Business has an extensive program of study in international business. It is designed to not only assist students in developing skills needed to compete in world markets, but to contribute to their preparation for careers in export marketing and export sales management, global sourcing, international finance and banking, international economics, international accounting and management of the multinational firm. The associate dean is available to advise students on courses, study abroad opportunities and international internships.

International Business Minor
The international business minor is available to all majors provided course prerequisites have been completed. It provides a multidisciplinary business training designed to complement the student's functional major. This allows students the opportunity to develop their functional skills while utilizing their elective hours to study the international aspects of business. A minimum overall GPA of 2.0 is required for the courses included in the minor.

Students are required to complete 15 s.h. according to the following format:

Minor Requirements (6 s.h.)

FIR 3350	International Business Transactions	3 s.h.
ECO 3410	International Economics	3 s.h.

Minor electives in international business (select at least 6 s.h.)

ECO 3040	Economic Growth & Development	3 s.h.
FIR 4750	International Business Finance	3 s.h.
MGT 3800	International Management	3 s.h.
MKT 4550	International Marketing	3 s.h.
ACC 4730	Accounting and International Business	3 s.h.

(Business courses taken in the College of Business Study Abroad Program qualify as electives.)

Students may select 3 semester hours from outside the College of Business from any of the following courses (3 s.h.):

ANT 3100	China in Context
ANT 3420	Women in Cross-Cultural Perspective
ANT 4565	Peasantry, World Systems, and Social Change
GHY 3210	Economic Geography
GHY 3011	Europe/U.S.S.R.
HIS 2302	History of Modern Latin America
HIS 2402	History of Asia since 1500
HIS 2422	History of Africa since 1850
HIS 3134	Twentieth Century Europe
HIS 3820	U.S. Foreign Policy
HIS 4554	Modern China
HIS 4564	History of Canada
HIS 4566	History of Mexico
PS 3120	International Politics & Foreign Policy
PS 3240	Comparative Politics
PS 4720	International Organization and Law

Foreign languages: Any course at 3000 level or above, except courses in Latin or literature.

Other selected topics courses or seminars related to the international business environment, with the approval of the associate dean of the College of Business.

Students choosing to enter the "joint venture" program to pursue a double major in economics and language should also consult with these academic departments.

Business Study Abroad Program

The College of Business encourages students to travel and study in other countries and offers a number of opportunities to do so. Students may complete one or two sessions of summer school in the business study abroad program, hosted by schools near Paris, France and in Gothenburg, Sweden and Durham, England. Courses, as described in the *Summer Bulletin*, are offered in general business and economics, international business and trade, culture and language. Students have the opportunity of visiting foreign firms, government agencies and international banking and commercial centers. The business study abroad program is designed to be an affordable alternative to summer school for Appalachian students. For more information, contact the associate dean.

International Business Students Association (IBSA)

This student organization serves as a center for student interest and activities in international business on the Appalachian campus and beyond. Students sponsor a variety of programs on campus, including prominent guest speakers, and become involved in a number of exciting public service projects.

Undergraduate minor in business

(for non-business majors)

Students **not majoring in the College of Business** may earn a business minor by completion of the following 18 hours of coursework:

ECO 2030	Principles of Economics-Price Theory	3
ACC 2100	Principles of Accounting I	3
MGT 3010	Survey of Management	3
MKT 3010	Survey of Marketing	3
FIR 3010	Survey of Finance	3

(FIR 3680 may be substituted for FIR 3010 with the permission of the department chairperson.)

Plus one of the following courses: 3

ECO 2040	Principles of Economics-Macro	(3)
ECO 2100	Economic & Business Statistics I	(3)
ACC 2110	Principles of Accounting II	(3)
FIR 2150	Legal Environment of Business	(3)
CIS 2660	Introduction to Management Information Systems	(3)
MGT 3020	Introduction to Personnel Administration	(3)
MGT 3030	Introduction to Small Business Management	(3)

TOTAL 18 s.h.

All 2000-level courses should be taken prior to the 3000-level courses in the minor. ECO 2030 can also be used as a social science credit for the general education requirements. A minimum overall GPA of 2.0 is required for the courses included in the minor.

For non-business majors who want a more specialized minor, see the appropriate department chairperson.

Graduate degrees

The College of Business offers two master's degrees: the Master of Business Administration (MBA) and the Master of Science in accounting.

Students interested in graduate work in the College of Business are encouraged to talk with the Director of Graduate Studies in the College of Business for additional information. Specific requirements for these degree programs are found in the *Graduate Bulletin.*

Scholarships

The College of Business offers several renewable scholarships to entering freshmen students including the John A. Walker Scholarships of $2,500 per year; the Frank M. Payne Memorial Scholarships of $1,000 per year for risk and insurance majors; and the Tom and Virginia Mosley Scholarship of $500 per year. The College of Business Minority Student Award of $1,000 is also available for freshmen and may be renewed for three additional years.

There are several one-year College of Business Outstanding Student Scholarships available to freshmen and upperclass students. Specific scholarships for various majors within the college are also awarded yearly. Information about these scholarships may be obtained from the dean's office or the undergraduate advising office.

Individually designed major

In areas where the College of Business can provide adequate academic support a student, in consultation with an adviser and with the permission of the dean's office, can contract to pursue an individually designed major in the BSBA program. The program of study will focus on courses selected to fit the student's particular career objectives. Such a program will constitute a contract between the student and the College of Business and must be formulated at least one academic year prior to expected graduation. Interested students should confer with the director of undergraduate advising to develop a specific program of study.

An individually-designed major, leading to the Bachelor of Science in Business Administration degree, must include completion of the College of Business core and a minimum of 24 additional semester hours numbered 3000 or above contracted individually with the College of Business.

Internship programs

The College of Business offers internship opportunities for juniors or seniors (generally not authorized in the student's last semester) who are admitted to the College of Business. Such internships may be designed in the areas of accounting, banking, economics, finance, health care, information systems, insurance (actuarial science), management, hospitality management, marketing or real estate with the permission of the department and college internship coordinators. An internship course (see courses listed as 3900) is offered in every department in the College of Business. In addition to registration fees, an internship fee is also required.

Executive-in-residence program

Through this program, an executive with a business firm becomes a full-time member of the faculty in the College of Business for a semester or shorter period of time. Students can interact with business leaders with varied backgrounds adding an exciting new dimension to the educational process, as well as gaining valuable insight into the "real world" of business prior to graduation.

Distinguished CEO Lecture Series

Additional involvement with business executives is provided through the Distinguished CEO Lecture Series. Each semester, a chief executive officer from a prominent corporation is invited to present a lecture to faculty, administrators, and students. The series also allows students opportunity to interact with several other CEOs in an informal setting.

Transfer of credit from a two-year institution

Courses substantially equivalent to those numbered 1000-2999 in the College of Business at Appalachian may be acceptable for transfer from an accredited two-year institution as credit toward meeting degree requirements within the college. Credit for upper-division courses (numbered 3000 or above) taken at a two-year institution may be earned by examination.

Beta Gamma Sigma

This national honorary society for business administration students was founded in 1913. The Appalachian chapter was established in 1977. Membership is an honor and is limited to outstanding men and women students who give promise of success in the field of business and who rank in the upper five percent of the junior class or the upper ten percent of the senior class. Detailed information can be obtained from the College of Business dean's office.

Department of Accounting (ACC)

James F. Jones, Acting Chairperson

Accounting students are encouraged to acquire a sound liberal education. They are expected to demonstrate a grasp of the broader purposes of business and governmental organizations so that their accounting studies can be seen in the perspective of those broader purposes. Accounting courses in the curriculum are designed to develop strong professional capabilities which enable students to pursue successfully their chosen career paths in public accounting, managerial accounting and accounting for not-for-profit institutions such as hospitals or governmental entities.

Students are encouraged to consider planning a program of six to seven semesters and/or summer sessions of study beyond the sophomore level in order to:

1. Earn both the Bachelor of Science in Business Administration (BSBA) and the Master of Science (M.S.) degrees in accounting.
2. Spend one-half semester as an intern (with pay) in accounting with a CPA firm, business firm, governmental entity, or not-for-profit private institution. Internships are optional.
3. Study in a selected area of accounting (for example, auditing or taxation) or a complementary discipline, such as electronic data processing, health care management or financial analysis.
4. Spend a summer session abroad to gain perspective on the international aspects of accounting/business.

Students majoring in accounting may earn the BSBA degree in four to five semesters and/or summer sessions of study beyond the sophomore level. Students who complete upper level studies in two years usually must take some courses in summer session. Credit toward the BSBA is given for approved internships. Prior to an internship the student must consult with the department chairperson regarding courses to be taken following the internship. A special option for accounting majors is a ten-week winter internship for six semester hours of credit. Students completing the special winter internships return to campus in mid-March and attend special "spring minimester" accounting courses to earn an additional six semester hours of credit, making a total of 12 hours of credit for the entire spring semester. The 10 week winter internships and spring "minimester" constitute a unique program in North Carolina offered only at Appalachian.

The BSBA degree with a major in accounting may be obtained by completion of the following courses in addition to the required College of Business core courses.

ACC 3100-3110	Intermediate Accounting I and II	8 s.h.
ACC 3200	Cost Accounting	3 s.h.
ACC 3570	Accounting Systems and Internal control	3 s.h.
ACC 3580	Individual Income Taxation	3 s.h.
ACC 4550	Accounting Theory	3 s.h.
ACC 4560	Introduction to Auditing	3 s.h.
ACC _____	(Accounting electives above 3000	
ACC _____	except internships)	6 s.h.

In addition to these requirements, each accounting major must complete a minimum of three semester hours in College of Business courses numbered 3000 or above. Students intending to qualify for one of the professional examinations in accounting should take the following:

CPA Examination: ACC 3550, 4580, 4590, 4660, 4990; FIR 3910, 4640.

CMA Examination: ACC 4580, 4660, 4710, 4990; ECO 3020; FIR 3690; CIS 3680.

(Two of these courses could be taken for above electives.) The certifying agency should be contacted for other examination requirements.

The following courses are specified as completing the general education requirements for accounting majors in the areas and hours indicated:

Humanities: choose at least three hours from P&R 1040, 1100, 2000, 2100 and 3700.

Social sciences: choose at least three hours from PS 1100, 1200, 2100, 2130, 2160, 3230, 3280, 3330, 3660; OR PSY 1200; OR SOC 1000, 2000; OR ANT 1215.

Accounting majors are advised to use their elective hours in areas such as law, finance, data processing, mathematics, statistics, economic theory, additional accounting courses, and liberal arts courses concerning individual and group behavior or communication. An internship (see above) may be elected to provide practical experience, with academic credit, in the field of specialization.

A minor in accounting may be obtained by the completion of 15 semester hours, consisting of ACC 2100-2110 and nine additional semester hours of electives in accounting. A minimum overall GPA of 2.0 is required for the courses included in the minor.

A student majoring in accounting must complete the following additional courses: COM 2101, Public Speaking and ENG 3100, Business Writing. These courses qualify for the category "outside the College of Business at any level" under item III of the general undergraduate degree plan outline.

A Master of Science in accounting consisting of 30 semester hours is available. For more information, refer to the description of the Master of Science in accounting program in the Graduate School section.

Courses of instruction in accounting (ACC)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

2100. Principles of Accounting I/(3).F;S;SS.
The initial course in the theory and practice of financial accounting. Topics emphasized include the preparation, reporting, and analysis of financial data. Prerequisite: sophomore standing.

2110. Principles of Accounting II/(3).F;S;SS.
A course dealing with the concepts and development of accounting data for decision making. Topics emphasized include manufacturing cost systems, cost-volume-profit analysis, and budgeting concepts. Prerequisite: ACC 2100.

2500. Independent Study/(1-4).F;S;SS.

3100. Intermediate Accounting I/(4).F;S;SS.
Financial accounting theiry and practice underlying the accounting process. Topics emphasized include asset and liability accounts, the related income measurement, valuation, and reporting problems associated with these accounts. Prerequisite: a minimum grade of C (2.0) in ACC 2110.

3110. Intermediate Accounting II/(4).F;S;SS.
A continuation of ACC 3100. Topics emphasized include analysis of stockholders' equity accounts, income determination problems, changes in accounting methods and estimates, fund statements, statement analysis, and special problems. Prerequisite: A minimum grade of C (2.0) in ACC 3100.

3160. Introduction to Individual Taxation/(1).F.
Preparation of state and federal income tax returns. Topics emphasized include gross income, adjusted gross income, deductions and exemptions, capital gains and losses, computation of tax liability, audit of tax returns, tax questions, the IRS and the courts. Prerequisite: None. Not available to accounting majors.

3200. Cost Accounting/(3).F;S;SS.
Introduction to cost accounting, definitions and objectives. Topics emphasized include cost-volume-profit relationships, job-order accounting, budgeting, systems design and human motivation, flexible budgets, standard costs, contribution approach to decisions, cost allocation, joint product and by-product costing, process costing. Prerequisite: ACC 2110 with a minimum grade of C (2.0).

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3550. Accounting for Non-Profit Organizations/(3).F;S;SS.
Application of principles of accounting, budgetary control, and financial management to nonprofit organizations. Discussion and cases will be drawn from municipal and county governmental units, universities, hospitals, and other nonprofit organizations. Prerequisite: ACC 2110 with a minimum grade of C (2.0).

3570. Accounting Systems and Internal Control/(3).F;S;SS.
An in-depth treatment of internal control and related accounting procedures; authorization and documentation; flowcharting and scheduling. Design of accounting systems to provide information for financial reports and to meet legal requirements for adequacy of accounting records and internal controls. Development of skills and expertise required for the study of contemporary accounting systems and internal auditing. Knowledge of a computer programming language is desirable but not essential. Prerequisite: ACC 3100 with a minimum grade of C (2.0).

3580. Individual Income Taxation/(3).F;S;SS.
Concepts and methods of determining federal income tax liability for individuals. Topics emphasized include personal deductions, tax credits, capital gain and loss provisions and accounting methods. Emphasis is also placed on research methodology and individual tax planning.

3900. Internship/(6 or 9).F;S;SS.
A full-time work situation for accounting majors providing an in-depth exposure in accounting practices. Nine hours granted for 15-week internship, six hours granted for 10-week summer internship or the special senior internship scheduled during a mini-session of the spring term. The student must report on his/her experiences and will participate in individual conferences and/or seminars related to the experience. Prerequisite: junior or senior standing and permission of the departmental internship coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4550. Accounting Theory/(3).F;S;SS.
Study of the history and development of accounting principles with special emphasis on the authoritative pronouncements. Prerequisite: ACC 3110 with a minimum grade of C (2.0).

4560. Introduction to Auditing/(3).F;S.
A survey course introducing the student to selected auditing standards, types of services, analysis of reports, legal responsibility, ethics, internal control and SEC requirements. This course is not intend-

ed to meet the requirements in auditing for taking the CPA, CMA, and CIA examinations. Prerequisite: ACC 3110 with a minimum grade of C (2.0).

4580. Income Taxation of Corporations/(3).F;S.
Concepts and methods of determining federal tax liability of corporations. Topics include ordinary income, capital gains and losses, net operating loss, reorganizations, contemporary problems in corporate taxation and tax research. The student will also be introduced to estate, gift and partnership taxation. Prerequisite: ACC 3580 with a minimum grade of C (2.0).

4590. Advanced Accounting I/(3).S.
An examination of the special problems in accounting for business combinations and consolidated corporate entities. Topics also include home office/branch and foreign operations accounts. Prerequisite: ACC 3110 with a minimum grade of C (2.0).

4660. Auditing Concepts and Applications/(3).F;S;SS.
An indepth study of ASB pronouncements and application of GAAS to an audit (public, internal and governmental) engagement. Greater emphasis on system analysis, relationship of internal control to audit objectives, and purpose of selected audit procedures—cases used where applicable. Prerequisite: A minimum grade of C in ACC 4560.

4710. Advanced Cost Accounting/(3).S.
Cost analysis and capital budgeting. Topics emphasized include inventory planning and control, spoilage and scrap, systems and internal control, performance measurement, transfer pricing, decision models, cost behavior patterns, analysis of variance, mix and yield variances, operations research techniques, linear programming. Prerequisite: ACC 3200 with a minimum grade of C (2.0).

4730. Accounting and International Business/(3).S;SS.
A study of selected issues in accounting for and taxation of international business and related effects on organizational and operating decisions. Subjects include DISCs and foreign sales corporations; dual taxation and tax treaties; impact of alternative taxing methods on international competition; international accounting standards; foreign current translations; Foreign Corrupt Practices Act. Prerequisite: ACC 2110, ACC 5190, or equivalent.

4810. Seminar in Accounting/(3).On Demand.

4990. Professional Examination Preparation/(3).F;S.
An intensive review of the accounting discipline, the purpose of which is to assist the student to bring together his/her coursework in accounting so as to maximize performance on a professional examination. All coursework is updated to include the latest pronouncements of the various rule making bodies. Prerequisite: consent of Instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Decision Sciences (DS/CIS/POM)

Kathy E. Fitzpatrick, Chairperson

The Department of Decision Sciences offers coursework in the areas of information systems, production/operations management, and quantitative methods. Students in decision sciences are encouraged to acquire a broad liberal education in order to understand the interface between the technical and non-technical aspects of business. A major in information systems is offered by this department and is designed to develop professional skills/capabilities which enable students to pursue careers in computerized information systems areas in either the public or private sectors of our economy.

Bachelor of Science in Business Administration

(with major in information systems)

A Bachelor of Science in Business Administration (BSBA) with a major in information systems consists of 24 semester hours in addition to the College of Business core courses

required for the BSBA degree. The course requirements for the information systems major are: Nine hours from the structured information systems core; nine hours from one of the two sub-areas; and six elective hours from College of Business courses numbered 3000 or above.

Information systems core

CIS	3550	Systems Analysis and Design	3 s.h.
CIS	3670	Applications (COBOL) in Bus. Data Proc.	3 s.h.
CIS	3680	Modeling and Simulation	3 s.h.

Two sub-areas:

Computer information systems

CIS	3690	Adv. Appl. (COBOL) in Bus. Data Proc.	3 s.h.
CIS	4690	Data Base Processing	3 s.h.
CIS	4790	Current Topics in Information Systems	3 s.h.

Production/operations management (optional concentration)

POM	4651	Applied Operations Management	3 s.h.
POM	4750	Management Science	3 s.h.
POM	4850	Integrated Manufacturing Systems	3 s.h.

The elective hours may be in any area of business. An internship may be elected to provide practical experience, with academic credit, in the information systems or production/operations management fields. Students are encouraged to take their other electives in accounting, mathematics, computer science, quantitative methods, or statistics.

Undergraduate minor in information systems

(for non-business majors only)

A minor in information systems may be obtained by completing the following:

CIS	3550	Systems Analysis and Design	3 s.h.
CIS	3670	Applications (COBOL) in Business Data Processing	3 s.h.
CIS	3680	Modeling and Simulation	3 s.h.
CIS	3690	Advanced Applications (COBOL) in Business Data Processing	3 s.h.

In addition to these courses, CIS 2660 or its equivalent must be completed. A minimum overall GPA of 2.0 is required for the courses included in the minor.

A Master of Business Administration (MBA) degree is available. For more information, refer to either the graduate degrees described earlier under College of Business programs or the *Graduate Bulletin*.

Courses of instruction in computer information systems and production/operations management

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

COMPUTER INFORMATION SYSTEMS (CIS)

2500. Independent Study/(1-4).F;S;SS.

2600. Computer Survey for Non-Business Majors/(2).On Demand.
A non-technical survey of the applications of computers in a wide range of academic disciplines. Designed to acquaint the student with new and innovative applications of the computer to his/her primary field of study.

2660. Introduction to Management Information Systems/(3).F;S;SS.
This course will provide students with the basic concepts of management information systems and computer information systems. Through lectures and applications, these concepts are related to business, industry, government and societal information requirements. Concepts include the theory of MIS, CIS, and DSS as they pertain to the corporation environment.

3010. Microcomputers in Business/(3).F;S.
A examination of the role of microcomputers in business firms and the managerial issues in data processing shops. Emphasis will be placed on the design, implementation and definition of the role of the microcomputer in the information system, evaluation of hardware and software and the management of micro-information systems.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On demand.

3550. Systems Analysis and Design/(3).F;S.
The role of management in the planning, development, and control of data processing systems. The primary activity of this course will be to prepare and present for discussion case studies in the development of management information systems. Prerequisite: CIS 2660 or equivalent.

3670. Applications in Business Data Processing/(3).F;S;SS.
A study of the problems encountered in the implementation of business systems. The COBOL language is used in order to complete application type programs. Prerequisite: CIS 2660.

3680. Modeling and Simulations/(3).F;S;SS.
A study of data processing systems to satisfy business systems requirements. The techniques of computer based and non-computer based information systems are included. The design of simulation models as they apply to business and economics is studied. Prerequisite: CIS 2660.

3690. Advanced Applications in Business Data Processing/(3).F;S.
This course will develop the necessary skills to plan and implement computerized systems requiring both sequential and direct access processing. File organization and the processing of files using the COBOL language will be emphasized. Prerequisite: CIS 3670.

3691. Applications in RPG II Programming/(3). On Demand.
A study of the problems encountered in the implementation of business systems. The RPG II language is introduced/taught in order to complete application programs. Prerequisite: CIS 3550.

3900. Internship/(6 or 9).F;S;SS.
A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: full admission to the College of Business, junior or senior standing, and permission of department chairperson and internship coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4690. Data-Base Processing/(3).F.
This course introduces the student to the properties, logic, design, implementation, and accessing of business data-bases as contrasted to conventional data file creation and maintenance techniques. Particular emphasis is placed upon the relational approach to data-base management and processing, which focuses more on the logical nature of a data-base than its physical characteristics. Relational data-base programming assignments are drawn from the fields of business and government. Prerequisite: CIS 3670.

4790. Current Topics in Information/(3).F;S.
Advanced topics in the field of business data processing will be studied. These topics may include but are not limited to data communications, advanced systems analysis, distributed processing systems, micro-processing and/or business software packages. Prerequisite: CIS 3550 and 3670 or permission by instructor.

4810. Seminar/(3).On Demand.

4851. Advanced Systems Design/(3).F.
A continuation of CIS 3550. Emphasis will be placed on systems design and implementation of information systems. Projects, including software development, will be assigned for different types of organizations (public and private sector). Prerequisite: CIS 3690 or consent of instructor.

PRODUCTION/OPERATIONS MANAGEMENT (POM)

2500. Independent Study/(1-4).F;S;SS.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3650. Production and Operations Management/(3).F;S.
An introduction to the basic functions and concepts involved in managing the production and operations function of an organization. Topics in operations system design, and analysis at the introductory level are included. Prerequisite: MAT 1030 and ECO 2100.

3900. Internship/(6 or 9).F;S;SS.
A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: full admission to the College of Business, junior or senior standing, and permission of department chairperson and internship coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4651. Applied Operations Management/(3).F;S.
A study and application of quantitative tools of analysis used in production and operations management. Specific topics include decision theory and mathematical modeling, linear programming, queuing theory, network models, inventory analysis, and operations processes. Cases and projects are widely used. Prerequisites: POM 3650 and ECO 3100.

4740. Applications for Forecasting Techniques/(3).F.
The study of the behavior of time series (data collected over a period of time) in order to explain past and forecast future events and conditions in business and economics. Major emphasis will be placed on the understanding and application rather than the theoretical and computational aspects of the statistical techniques. This will be accomplished through heavy usage of canned computer programs. Prerequisite: ECO 3100, or permission of the instructor.

4750. Management Science/(3).F.
An examination of the quantitative techniques applicable in decision-making activities in the organization seeking optimum solutions in the prototype problem area (allocation of resources, inventory, routing, sequencing, queuing, etc.) Topical areas such as mathematical programming (linear, quadratic, integer), inventory models, queuing theory both finite and infinite systems will be covered. Prerequisite POM 3650.

4810. Seminar/(3).On Demand.

4850. Integrated Manufacturing Systems/(3).S.
An examination of the recent developments and trends in information and manufacturing technologies and their impact on production/operations management. Case studies are used to illustrate the design, implementation and operation of an integrated manufacturing system covering such functions as aggregate planning, master scheduling, inventory planning and control, capacity planning and control, materials requirements planning, production scheduling and quality control. Prerequisites: CIS 3550 and POM 3650, admission to the College of Business and senior standing, or CIS 5200.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Economics (ECO)

Larry Ellis, Chairperson

The objectives of the Department of Economics are:

1. to provide the basic institutional and theoretical knowledge required for the understanding of the functioning of the American economy and the world economy and for the understanding and analysis of current economic issues and problems;
2. to develop the institutional and theoretical knowledge and analytical abilities necessary to prepare students for careers in business and government as managers and researchers on social and business problems; and
3. to prepare students who seek to become professional economists and/or economic educators for graduate school.

Bachelor of Science in Business Administration

BSBA majors in the Department of Economics must complete (1) the general education course requirements and ECO 2030, 2040, and 2100; (2) the College of Business core course requirements; and (3) the requirements of the chosen major (listed below).

BSBA in economics

ECO 3010, 3020 (Intermediate Theory) ..... 6 s.h.
ECO electives (3000 and above, at least 3 semester hours at the 4000 level) ..... 9 s.h.
College of Business electives (3000 and above) ..... 9 s.h.

BSBA in banking

ECO 3010, 3020 (Intermediate Theory) ..... 6 s.h.
ECO 3070, Money and Banking ..... 3 s.h.
ECO 4620, Commercial Bank Mgmt. & Operations ..... 3 s.h.
CIS 3670, Applications in Business Data Processing ..... 3 s.h.
FIR 3790, Financial Markets; or FIR 4660, Financial Decision-Making; or FIR 4610, Management of Financial Intermediaries ..... 3 s.h.
College of Business electives (3000 and above) ..... 6 s.h.

BSBA double major in economics and banking requires completion of requirements for major in banking and including one economics course (3000 or above) among the College of Business electives.

BSBA double major in economics and a functional area of business requires careful selection of elective courses so as to satisfy the requirements of both majors.

Bachelor of Arts degree

The Bachelor of Arts degree with a major in economics is offered in the College of Arts and Sciences in cooperation with the Department of Economics. Students may earn a

Bachelor of Arts degree in economics by completing the following requirements in addition to the requirements of the College of Arts and Sciences:

ECO 2030/2040	Principles of Economics	6 s.h.
ECO 3010	Intermediate Price Theory	3 s.h.
ECO 3020	Macroeconomic Analysis	3 s.h.
ECO 2100/3100	Business and Economic Statistics I and II	6 s.h.
	Electives in Economics	12 s.h.
	(3000 and above, at least 6 s.h. at 4000 level)	
	TOTAL	30 s.h.

BS in social science (with teaching certification) with a concentration in economics

For the curriculum for a major in social science with a concentration in economics leading to the Bachelor of Science degree, see the economics department chairperson. For the requirements in teacher education, see the Department of Curriculum and Instruction.

International economics and business options

International economics and business options are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in economics. The program is jointly administered by the Department of Economics and the Department of Foreign Languages and Literatures. Students participating in the program have an advisor in each department.

The program combines a major in economics and a major or minor in a foreign language. Students are also advised to pursue a minor in international business. A minimum overall GPA of 2.0 is required for the courses included in the minor.

The various options are as follows:

Bachelor of Arts with a double major in economics and one foreign language (French or Spanish)
Bachelor of Arts in economics with a minor in French, German or Spanish.
Bachelor of Science in Business Administration with a major in economics and a minor in French, Spanish or German.

Under all three options, the student is expected to demonstrate proficiency (reading and speaking) in the language selected. At least 15 hours of courses in the language, civilization and culture of the chosen country or area is recommended beyond the 1050 level. Also students are expected to participate, if possible, in any one or more of the following programs:

1. Pursue a minor in international business (15 semester hours);
2. Complete a semester or summer session of business study abroad in the country of their choice;
3. Complete an internship abroad (usually 6 hours).

For further information, students should consult both the chairperson of the Department of Economics and of the Department of Foreign Languages and Literatures.

Minor in economics

(for non-business majors only)

A minor in economics consists of ECO 2030, 2040, and nine semester hours of economics electives numbered 3000 or above.

A minimum overall GPA of 2.0 is required for the courses included in the minor.

Honors program in economics

The Department of Economics offers at the sophomore level two honors seminar courses (ECO 2510 and 2515) in principles of economics, open by invitation only to students who have excellent records on their previous college courses. Any student who has not been invited to participate in these sophomore-level seminars and would like to be considered may contact the department chairperson or the departmental honors advisor.

The department also offers a senior honors research and thesis course (ECO 4510) open only to majors in economics during their final undergraduate semester and who have an outstanding undergraduate record. A student who wishes to enroll in the senior honors research and thesis course should contact the department chairperson or the departmental honors advisor and make the necessary arrangements during the first semester of his/her senior year.

In order to graduate "with honors in economics" or "with highest honors in economics" a student must successfully complete ECO 4510.

Additional information is provided in the course descriptions of ECO 2510, 2515, and 4510, and may be obtained from the department chairperson, or the departmental honors advisor.

Courses of instruction in economics (ECO)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

1010. Survey of Current Economic Issues/(3).F;S.
Application of basic economic concepts in the analysis of current issues such as: unemployment, inflation, energy, pollution, poverty, government regulation, etc. Prerequisite: none.

2030. Principles of Economics-Price Theory/(3).F;S;SS.
A brief introduction to the study of economics followed by an in-depth analysis of microeconomics; theories of supply and demand, the price mechanism, income distribution, consumer choice, cost and revenue analysis and the theory of the firm, competition and monopoly and antitrust policy, government spending and taxing, agriculture, labor, and big business in the American economy, and current economic problems such as pollution, population expansion, urbanization, poverty, and discrimination. Prerequisites: none.

2040. Principles of Economics-Macro/(3).F;S;SS.
A brief introduction to the study of economics followed by an in-depth analysis of macroeconomics: the circular flow of the economy, money and banking, national income analysis, business cycles, monetary

and fiscal policy, and including an introduction to international trade and finance and international economic issues. Prerequisites: ECO 2030 or permission of instructor.

2100. Business and Economic Statistics I/(3).F;S;SS.
A study of statistical tools used to analyze business and economic problems. The major subject matter includes descriptive statistics, the concepts of probability, confidence intervals and hypothesis testing, and statistical comparison of production and marketing methods. Prerequisites: MAT 1030 or MAT 1020.

2500. Independent Study/(1-4).F;S;SS.

2510. Honors Seminar in Principles of Economics-Micro/(3).F.(Substitutes for ECO 2030).
Tutorial instruction in the functioning of a market economy. Topics covered include supply and demand; market; income distribution; production theory; international trade and financial problems. Available to all qualified students. Not limited to students who are planning to major in Economics. Any student who has not been invited to participate in this course and who would like to be considered should contact the economics department chairperson or departmental honors advisor. Prerequisites: none. Open to students by invitation only.

2515. Honors Seminar in Principles of Economics-Macro/(3).S.(Substitute for ECO 2040)
Tutorial instruction in the formulation and execution of economic policy in a modern market economy. Topics covered include the basic principles of a market economy; the measurement of macroeconomic magnitudes; income determination; fiscal policy, taxation, and government expenditure; the nature, source, and control of money; monetary policy. Available to all qualified students. Not limited to student who are planning to major in economics. Any student who has not been invited to participate in this course and who would like to be considered should contact the Department of Economics chairperson or departmental honors advisor. Prerequisites: none. Open to students by invitation only.

3010. Intermediate Price Theory/(3).F;S.
An intermediate course in economic theory with emphasis on the theory of consumer behavior, price theory and resource allocation. Prerequisites: ECO 2030, 2040.

3020. Macroeconomic Analysis/(3).F;S.
An intermediate course in economic theory with emphasis on the analysis of the determinants of the nation's income, output, employment, and general price level. Prerequisites: ECO 3010 or permission of the instructor.

3040. Economic Growth and Development/(3).S.
Acquaints the student with the traditional and contemporary literature on economic growth and development, the history of economic development in advanced and developing countries, alternative strategies in economic development theory and their relevance to domestic economic issues. Prerequisite: ECO 2030 and 2040 or permission of instructor.

3050. Industrial Organization and Public Policy Toward Business/(3).S.
The economics of competition and monopoly including antitrust, regulatory, and other government policies influencing market structure and business performance in the American economy. Prerequisites: ECO 2030, 2040.

3070. Money and Banking/(3).S.
An institutional and theoretical study of the structure and functioning of the central and commercial banking systems in the United States, money and monetary theory, the money and capital markets and financial intermediaries, and monetary policy. Prerequisites: ECO 2030, 2040.

3100. Business and Economic Statistics II/(3).F;S;SS.
Applications of statistical tools to a variety of business and economic situations. These tools include survey sampling methods, hypothesis testing using analysis of variance, regression and time-series analysis, and non-parametric statistics. Emphasis is placed on computer applications using available programs. Prerequisites: ECO 2030, 2040, 2100.

3410. International Economics/(3).F.
A survey of the theory, development, and practice of the international trade and payments system. Special attention is given to the basic concepts and different mechanisms which have been and are used in international economic affairs, as well as to governmental policies and domestic and international institutions regulating them. Prerequisites: ECO 2030, 2040.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.
Topics covered have ranged from mathematical economics to economics of the law. Prerequisite: permission of the instructor.

3900. Internship/(6 or 9).F;S;SS.
A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: full admission to the College of Business or College of Arts and Sciences, junior or senior standing, and permission of department chairperson and internship coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4510. Senior Honors Research and Thesis/(3).On Demand.
Independent in-depth research and analysis and preparation of a thesis on a significant topic in economics, directed by a member of the graduate faculty in economics. A thesis is presented orally and in writing to the Department of Economics. Oral examination and grade assigned by the departmental honors committee. Required for graduation "with honors in economics." A student who completes this course with a grade of B, and who graduates with a GPA of 3.5 in economics courses, will graduate with honors in economics; with a grade of A, and a GPA of 3.7 in economics courses, a student will graduate "with highest honors in economics." Prerequisites: GPA of at least 3.5 overall and a 3.5 in economics courses. Approval of proposed research topic and methods by departmental honors committee and assignment of research thesis advisor during the semester prior to enrollment in this course. Open only to majors in economics during their final undergraduate semester.

4550. Public Finance and Taxation/(3).F.
Economics analysis of government revenues and expenditures, impact of the government budget, shifting and incidence of taxation, public debt, fiscal policies. Prerequisites: ECO 2030, 2040.

4610. Economics of Health Care/(3).S.
Economic theory is applied to the health care industry. Included is an overall perspective of the health care industry, identification of the factors influencing the demand for and the supply of health care; identification of some costs and benefits of health programs, hospital organization and efficiency, and a consideration of alternative methods of financing health care. Prerequisite: ECO 2030, 2040, and 2100.

4620. Commercial Bank Management and Operations/(3).F.
A seminar in applied banking. The student is guided by bankers through an analysis of the major functions of a commercial bank, including operations, loans, asset management, and trusts. Student research project involves interviews with bankers. Prerequisites: ECO 2030, 2040, also ECO 3070 or permission of the instructor.

4630. History of Economic Thought/(3).S.
Origin, development, and analysis of the major trends, contributions, and conflicts in the development of modern economic philosophy, analysis, and theory. Prerequisite: ECO 2030, 2040.

4640. International Economic Policy/(3).S.
A seminar in foreign economic policy issues. Issues such as balance of payment disequilibrium and adjustment, tariff and trade policy, the exchange rate, trade and aid in developing countries, East-West trade restrictions, regulation of multinational corporations, are presented through the most current readings in professional and practitioner's journals. Prerequisite: ECO 3410 or permission of the instructor.

4710. Managerial Economics/(3).S.
Use of statistical and mathematical concepts and techniques in solving problems in economics. Microeconomic theory is reviewed and optimizing techniques are used in decision making. Prerequisites: ECO 2030, 2040, and 2100 or equivalent.

4720. Labor Economics/(3).S.
An analysis of the labor market including the demand and supply of labor under various market structures. In addition, labor unions and other market constraints are analyzed and the aggregate level of employment is considered. Prerequisites: ECO 2030, 2040.

4740. Applications for Forecasting Techniques/(3).F.
The study of the behavior of time series (data collected over a period of time) in order to explain past and forecast future events and conditions in business and economics. Major emphasis will be placed on the understanding and application rather than the theoretical and computational aspects of the statistical techniques. This will be accomplished through heavy usage of canned computer programs (same as POM 4740). Prerequisite: ECO 3100, or permission of the instructor.

4750. Econometrics/(3).S.
Identification, measurement, and interpretation of demand, production, cost and consumption relationships, including simple and multiple regression

analysis of time series and cross sectional data. Prerequisites: ECO 2030, 2040, and 3100 or equivalent.

4800. Urban and Regional Economics/(3).F. An examination of the institutional background necessary for urban and regional growth. An introduction to theoretical models of growth. Prerequisites: ECO 2030, 2040.

4810. Seminar in Economics/(3).On Demand. Analysis of selected economic issues and problems. Courses subject to be offered at various times include: economics of state and local government, comparative economic systems, current economic issues, American or European economic history, and others. Prerequisites: Senior standing, ECO 2030, 2040, and permission of the instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Finance, Insurance and Real Estate (FIR)

Harry Davis, Chairperson

The primary objective of the Department of Finance, Insurance and Real Estate is to develop leaders for the business, government, and educational communities and to assist them in making contributions to society. This objective is obtained in two ways. First, students are provided with the theoretical concepts needed to understand and dissect business problems. Second, the faculty provide students with practical applications needed for financial analysis in their given areas of study.

In addition to practical applications in the classroom, students are encouraged to take advantage of the internship program. This program allows students to gain valuable practical business experience while still in college.

A Master of Business Administration (MBA) is available through the College of Business. For more information, see the section on graduate programs.

The Department of Finance, Insurance and Real Estate houses the North Carolina Alliance of Community Financial Institutions Chair, the Richard S. Brantley Risk and Insurance Center and the Real Estate Research Center.

Bachelor of Science in Business Administration

(with a major in finance)

A Bachelor of Science in Business Administration degree (BSBA) with a major in Finance consists of 24 hours in addition to the College of Business core courses required for the BSBA degree. Fifteen hours come from the structured finance core, six hours from the finance sub-area, and three hours of electives from College of Business courses numbered 3000 or above.

Finance core

FIR	3690	Financial Management	3 s.h.
FIR	3790	Financial Markets & Intermediaries	3 s.h.

FIR	3890	Survey of Investments	3 s.h.
FIR	4660	Financial Decision Making	3 s.h.
ACC	3200	Cost Accounting;	
or			
ACC	3100	Intermediate Accounting I;	
or			
ACC	_____	Any other accounting course with the permission of the chairperson	3 s.h.
		TOTAL	15 s.h.

Sub-Area (Take two of the following courses):

FIR	4400	Savings and Loan Management	3 s.h.
FIR	4610	Management of Financial Intermediaries	3 s.h.
FIR	4620	Investment Management	3 s.h.
FIR	4630	Working Capital Management	3 s.h.
FIR	4750	International Business Finance	3 s.h.
		TOTAL	6 s.h.

College of Business electives

		College of Business courses numbered 3000 or above	3 s.h.
		TOTAL	3 s.h.

TOTAL hours for BSBA with a major in Finance ..... 24 s.h.

Finance majors are advised to use their three College of Business elective hours in an area such as accounting, decision science, insurance, and real estate. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

Bachelor of Science in Business Administration

(with a major in risk and insurance)

A Bachelor of Science in Business Administration (BSBA) with a major in risk and insurance consists of 24 hours in addition to the College of Business core courses required for the BSBA degree. The course requirements for the risk and insurance major are: nine hours from the structured risk and insurance core, nine hours from the sub-area, and six hours of electives from College of Business courses numbered 3000 or above.

Risk and insurance core

FIR	3071	Principles of Risk Management and Insurance	3 s.h.
FIR	3690	Financial Management	3 s.h.
FIR	3790	Financial Markets and Intermediaries	3 s.h.

Sub-Area (take three of the following courses):

FIR	3072	Life and Health Insurance	3 s.h.
FIR	3073	Property and Liability Insurance	3 s.h.
FIR	3074	Financial Planning	3 s.h.
FIR	3960	Insurance Law	3 s.h.
FIR	4570	Risk Management	3 s.h.

Risk and insurance majors are advised to use their elective hours in areas such as accounting, economics, finance, management, mathematical sciences, law, real estate, and additional risk and insurance courses. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

The Richard S. Brantley Risk and Insurance Center, housed in the Department of Finance, Insurance and Real Estate, has the mission of developing the strongest possible degree program in risk management and insurance. The Brantley Center supports the Risk and Insurance major by sponsoring the Gamma Iota Sigma insurance fraternity, scholarships, internships, executive-in-residence appointments, and the placement of graduates in the insurance industry.

Bachelor of Science in Business Administration

(with a major in real estate and urban analysis)

A Bachelor of Science in Business Administration (BSBA) with a major in real estate and urban analysis consists of 24 hours in addition to the College of Business core courses required for the BSBA degree. The course requirements for the real estate and urban analysis major are 12 hours from the structured real estate and urban analysis core, six hours from the sub-area, and six hours from College of Business courses numbered 3000 or above.

Real estate and urban analysis core

FIR	3790	Financial Markets and Intermediaries	3 s.h.
FIR	3850	Real Estate Principles and Practices	3 s.h.
FIR	3890	Survey of Investments	3 s.h.
FIR	3940	Real Estate Financial Analysis	3 s.h.

Sub-area (take two of the following courses):

FIR	3860	Real Estate Appraisal	3 s.h.
FIR	3950	Real Estate Law	3 s.h.
FIR	4560	Real Estate Investments	3 s.h.
FIR	4704	Property Development Planning	3 s.h.

Real estate and urban analysis majors are advised to use their elective hours in areas such as data processing, statistics, geography, finance, insurance, management, law and economics. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

The course FIR 3850 is required for a North Carolina Real Estate Salesperson license. Also, students must take FIR 3850, 3940, and 3950 and meet certain other requirements to obtain a North Carolina Brokers license.

Courses of instruction in finance, insurance and real estate (FIR)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see the index.)

2150. Legal Environment of Business/(3).F;S;SS.
An introduction to the legal process in order to demonstrate its effect on individuals and businessmen. A philosophical and historical background of jurisprudence and of the American legal system is supplied as well as a larger in-depth study of the federal and state court systems. Emphasis is also placed on legislative, administrative and common law, stressing specific topics affecting the businessman, such as contracts, business crimes and torts, government regulations, environmental protection, and the ethnical problems confronting businessmen in both the national and international trade settings.

2500. Independent Study/(1-4).F;S;SS.

2860. Personal Finance/(3).On Demand.
A study of the key concepts, tools, and techniques of personal financial management. Focus is placed on the financial statements of the individual. The balance sheet model includes a discussion of personal assets—both financial and non-financial, personal liabilities including all types of loans, and personal net worth. The implications of the current financial environment (i.e., changing tax laws, savings instruments, interest rates, etc.) is also considered from the standpoint of the individual.

3010. Survey of Finance/(3).F;S.
This course is not open to business majors for credit.
An introduction to the field of finance in the private sector. The student is introduced to financial management in the business firm to the principles of investment and valuation, and to financial markets and prices.

3071. Principles of Risk Management and Insurance/(3).F;S;SS.
Covers risk management, general principles of insurance, economic security, individual life insurance, health insurance, social insurance, property insurance and liability insurance. Prerequisite: admission to the College of Business.

3072. Life and Health Insurance/(3).F;S;SS.
Provides a comprehensive examination of life and health insurance including economic security, group and individual coverages, life insurance law, mathematics of life insurance, social insurance, pension planning, business insurance and estate planning. Prerequisite: FIR 3071.

3073. Property and Liability Insurance/(3).F;S.
Provides a comprehensive examination of property and liability insurance including personal and commercial property and commercial liability risk management and insurance; the legal environment of property and liability insurance; and property and liability insurance function, practices and issues. Prerequisite: FIR 3071.

3074. Financial Planning/(3).S.
Covers the gathering of financial information necessary to determine individuals' financial needs and evaluating life insurance and other financial instruments which will best meet these needs. Prerequisite: FIR 3071.

3350. International Business Transactions/(3).F;S.
The mechanics of international trade involving private and public law are the essentials for study. Emphasis is on providing the exporter/importer with legal knowledge to facilitate international trade and its related activities. Basic international agreements for trade will be examined, including GATT and its implications for U.S. importers under American law. Legal problems of multinational corporations, technology transfer, and business ethics are also studied. Prerequisite: FIR 2150 or permission of the instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S.
A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3680. Introduction to Finance/(3).F;S;SS.
An introduction to the field of finance in the private sector. The student is introduced to financial management in the business firm to the principles of investment and valuation, and to financial markets and prices. Prerequisite: admission to the College of Business.

3690. Financial Management/(3).F;S;SS.
Study of financial functions of a business enterprise conducted from the standpoint of the financial manager. Emphasis on analysis, planning, and control; working capital management; capital

budgeting; long-term financing; financial structure and valuation; and required return. Prerequisite: FIR 3680.

3790. Financial Markets and Intermediaries/(3).F;S;SS.
An in-depth study of the markets in which savers and borrowers of short and long-term funds come together. Focus is on the supply and demand for funds, the resulting yields and effects on capital formation, and evaluation of market performance. Course coverage will also include an examination of the various intermediaries that operate within financial markets. Prerequisite: FIR 3680.

3850. Real Estate Principles and Practices/(3).F;S;SS.
A comprehensive introduction to real estate, with emphasis on finance, investment, law, appraisal, brokerage, and property management applications.

3860. Real Estate Appraisal/(3).F;S.
An introduction to the approaches and methods of property valuation. Comparable sales analysis, cost analysis, and income capitalization techniques are emphasized. Prerequisite: FIR 3850.

3890. Survey of Investments/(3).F;S;SS.
A survey of investment media and investment goals, with emphasis upon their economic effects and relationships to the private investor. Investments media covered include money-market instruments; government issues, corporate debts issues, preferred and common stock, convertible securities, securities options, real estate, mortgages, commodities, gold, silver, gems, art antiques, coins, stamps, business ventures, investment companies, other financial instructions, and foreign investment. Prerequisite: FIR 3680.

3900. Internship/(6-9).F;S;SS.
A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship. Six semester hours are granted for a 10-week internship which is generally during the summer only. Prerequisite: admission to the College of Business and permission of the department chairperson. Graded on an S/U basis.

3910. Business Law I/(3).F;S;SS.
A study of selected traditional areas of the law that affect the commercial community. Includes law of contracts, commercial paper, agency, personal property and bailments. Common law concepts are investigated as well as the impact of the Uniform Commercial Code on commercial transactions. The course is designed to give students an awareness of legal problems that may exist in a commercial transaction, and to develop the analytical skills necessary to recognize and seek assistance for such problems. (A special objective of this course is to assist students in preparing for the CPA examination.)

3920. Business Law II/(3).On Demand.
A continuation of selected areas of commercial law that affect the business community. Includes the law of sales, debtor-creditor relationships, real property, estates and trusts, partnerships, corporations and the government regulation of business. Sources of inquiry include the common law, Uniform Commercial Code and other pertinent materials. The course is designed to give students an awareness of legal issues that may exist in commercial transactions and the analytical skills necessary to recognize potential problems. Prerequisite: FIR 3910.

3930. Hospitality Law/(3).S.
Laws applicable to ownership and operation of hotels, restaurants and resorts. Consideration of contracts, real property, ownership forms, torts, liabilities, duties and administrative agency regulations. Prerequisites: HOS 2000.

3940. Real Estate Financial Analysis/(3).F;S.
Real estate financial analysis as applied to various types of property. Includes the underwriting process, sources of funds, portfolio problems, and governmental programs. Money and mortgage market analysis and the use of modern creative finance and mortgage math are emphasized. Prerequisite: FIR 3850.

3950. Real Estate Law/(3).F;S. (Same as BE 3950)
Legal aspects of real property ownership, development, transfer, and brokerage, with emphasis placed on application of theoretical concepts. Prerequisite: FIR 3850.

3960. Insurance Law/(3).On Demand.
A study of the legal issues that affect licensing, regulation, sales and claims in the insurance industry. Common law and statutory schemes are investigated as well as the ethical responsibility of all involved parties. This course is designed for insurance majors that seek an in-depth understanding into the legal framework of the insurance process. Prerequisite: FIR 2150.

4400. Savings and Loan Management/(3).On Demand.
Views the management of the savings and loan association from the perspective of its competitive position with other financial intermediaries, and from the prospective of internal management of savings and loan associations. Prerequisite: FIR 3680.

Senior/Graduate Courses

4560. Real Estate Investment/(3).F.
Analysis of real estate investments, with quantitative current issues as well as analytical methods presented. Includes financing and income tax considerations. An investment analysis project will be required. Prerequisite: FIR 3850.

4570. Risk Management/(3).On Demand.
Study of risk recognition, risk control, and risk financing techniques used to achieve basic organizational goals such as profit maximization, earnings stability, and growth. Case studies are used to provide insight to the risk managment process. Prerequisite: FIR 3071.

4610. Management of Financial Intermediaries/(3).F.
A study of the intermediaries who function in the money and capital markets bringing together savers and borrowers. Emphasis is placed on the competitive structure of the industry and managerial problems of the several institutions. Prerequisite: FIR 3680.

4620. Investment Management/(3).F;S;SS.
A survey of investment media and investment goals, with emphasis upon their economic effects and relationships to the private investor. Traditional (fundamental and technical) and modern (randomized selection and efficient diversification) approaches are used for investment decision making. Prerequisite: FIR 3680.

4630. Working Capital Management/(3).On Demand.
Considers the day-to-day decisions of the financial manager with regards to the firm's working capital position. Topics examined in detail include cash and marketable securities management, accounts receivable management and inventory management. Practical problems and decisions are simulated through use of the case method. Prerequisite: FIR 3680.

4640. Business Law for Accountants/(3).F;S.
An in-depth study of legal rules, theories and regulations that impact upon the accounting profession. Common law and statutory sources will be utilized, with special emphasis in the areas of business organizations, SEC, accountants legal liability and ethics. Objectives of this course include exposing the accounting student to legal issues that confront the profession and assist the student in preparing for the CPA examination. Prerequisite: FIR 3910.

4660. Financial Decision Making/(3).F;S.
The capstone study of the application of financial policy. Emphasis is placed on problem solving through the use of cases. This course integrates all financial areas. Prerequisite: FIR 3690.

4704. Property Development Planning/(3).On Demand.
An analysis of the major elements of community growth and their relation to a proposed real estate development. Included is an examination of local, state, and federal development regulations as well as the relationship of the proposed development with several contemporary intra-urban problems such as: pollution, transportation, public utilities, and the local political environment. Prerequisite: FIR 3850.

4750. International Business Finance/(3).F.
A study of the financial decision-making process of a multinational enterprise when funds are transferred over national borders and from one economy and currency system to another. Prerequisite: admission to the MBA Program; FIR 5005; FIR 5020; FIR 5030.

4810. Seminar/(1-3).On Demand.

4910. Seminar: Hospital and Health Law/(3).On Demand.
This course is designed to provide students with a background in health and hospital law principles. Particular emphasis is placed on the basis of liability of public and private hospitals, other health care service organizations, and health care personnel. Other topics include contracts, torts, duties, and administrative agency regulations unique to health care services organizations. (Same as HCM 4910.)

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Management (MGT/HCM/HOS)

Degree programs in management; health care management and hospitality management.

George E. Lyne, Acting Chairperson

The objective of the Department of Management is to develop responsible and successful leaders of organizations by providing quality undergraduate and graduate education.

Bachelor of Science in Business Administration—Management (MGT) Major

A Bachelor of Science of Business Administration degree with a major in management (MGT) may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree:

MGT 3620	Personnel Administration	3 s.h.
MGT 3800	International Management	3 s.h.
MGT 4700	Organization Theory	3 s.h.
MGT 4770	Social Responsibilities of Management	3 s.h.

and **two** of the following courses:

POM 4651	Applied Operations Management	3 s.h.
MGT 4070	Entrepreneurship	3 s.h.
MGT 4630	Labor Relations	3 s.h.
MGT 4570	Compensation Administration	3 s.h.

In addition to the above requirements, each management major must complete a minimum of 9 semester hours respectively in College of Business courses numbered 3000 or above. Majors in this area are advised to use their elective hours in statistics, finance, economic theory, marketing, accounting, and international business. An internship may be elected to provide practical experience, with academic credit in the management field.

A Master of Business Administration (MBA) degree is available. For more information, refer to either the graduate degrees described earlier under College of Business programs, or the *Graduate Bulletin*.

Courses of instruction in management (MGT)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1050. Elements of American Business/(2).F;S. The relationship and responsibility of business to its economic, social and political environment. Available to freshmen only.

2500. Independent Study/(1-4).F;S;SS.

3010. Survey of Management/(3).F;S. This course is not open to business majors for credit.

An introduction to traditional and contemporary functions and concerns of management, including the history of management; planning, organizing, and controlling; decision-making fundamentals; information systems; motivation, communication, and leadership; international management; and social responsibilities of management.

3020. Introduction to Personnel Administration/(3).F;S.
This course is not open to business majors for credit.
A study of basic personnel policies, practices, objectives, functions and the organization of personnel programs. Emphasis is placed on recruiting, selection, placement, training and development, employee evaluation, compensation, accident prevention, and union management relations in modern business corporations.

3030. Introduction to Small Business Management/(3).S.
This course is not open to business majors for credit.
A study of the unique problems involved in managing a small business in a modern complex economy. The course investigates the role of the small firm in a changing environment, the strengths and weaknesses of small business, and the procedures for starting a new business. Specific attention is given to the uniqueness of the small business in areas such as finance, risk and insurance, personnel, marketing, and government regulation.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process of the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).F;S;SS.On Demand.

3620. Personnel Administration/(3).F;S;SS.
A study of basic personnel policies, practices, objectives, functions and the organization of personnel programs. Emphasis is placed on recruiting, selection, placement, training and development, employee evaluation, compensation, accident prevention, and union management relations in a modern business corporation. Prerequisite: admission to the College of Business.

3630. Introduction to Organizational Behavior/(3).F;S.
A study of individual and small group behavior in a work setting with focus on how this knowledge is reflected in current management theories. Emphasis is placed on understanding why employees behave the way they do and how to use this understanding to either maintain or change this behavior. Prerequisite: admission to the College of Business. Management majors are encouraged to take this course before or concurrently with MGT 3620.

3800. International Management/(3).S.
International management studies management as practiced in different nations and cultures. The influences of differences in the political, economic, social, legal, and technological environments on the management functions (planning, organizing, motivating, and controlling) and management effectiveness are examined. The requirements and problems of adapting the American approach to management in foreign cultures, and conversely, adapting foreign approaches to American business will be basic to the course. Also included will be an investigation of management practices world-wide as well as an examination of current issues and special topics. Prerequisite: MGT 3010 or 3630.

3900. Internship/(6).SS.
A management internship is designed to provide a full-time work experience for a minimum of ten weeks in a meaningful and challenging position in a structured office, manufacturing, or similar organizational setting and completion of an approved job related project. These internships are conducted during the summer between the junior and senior years. Prerequisites: admission to the College of Business, completion of at least 80 semester hours of credit but no more than 107, and permission of the internship coordinator. Graded on an S/U basis.

4070. Entrepreneurship/(3).F;S.
A study of the problems and opportunities associated with the initiation and management of innovative business organizations. The course focuses on the unique properties associated with planning, organizing, initiating, and managing an innovative venture. In addition to the functional areas normally associated with small business management, this course addresses entrepreneurship, innovation, and alternative sources of funding. Prerequisite: MGT 3630, MKT 3050, FIR 3680.

Senior/Graduate Courses

4570. Compensation Administration/(3).S.
A study of the economic, legal, psychological and social aspects of employee compensation with consideration given to federal and N.C. laws; techni-

ques for analyzing, evaluating and pricing jobs. Planning for and administering a total compensation program including incentives and fringe benefits. Prerequisite: MGT 3620 or MGT 3020. (This course may not be taken on an individual study basis.)

4630. Labor Relations/(3).F;S.
A study of labor-management relations with emphasis on management's relations with organized labor. Lecture, discussion and cases are used to study the reasons employees join unions, the laws that apply, and the process of working out a labor contract after it is negotiated. Prerequisite: MGT 3620, MGT 3020 or permission of instructor. (This course may not be taken on an individual study basis.)

4700. Organization Theory/(3).F;S.
The development and maintenance of organizational effectiveness are studied in terms of environmental effects, systems aspects, communications, structure, and the dynamics of problem solving, goal setting, politics, conflict, and governance. Organizations are treated as behavioral units from the macro perspectives of general managers and organization planners. Prerequisite: MGT 3630 or MGT 3010.

4750. Business Policy/(3).F;S;SS.
Comprehensive analysis of administrative policy making from a total organization point of view, use of case analysis and simulation to develop integrative decision skills. Prerequisite: All College of Business core courses. (This course may not be taken on an individual study basis.)

4770. Social Responsibilities of Management/(3).F;S.
A study of the economic, legal, political, and social environment within which business process takes place; how such environment affects the decisions managers must make. Prerequisite: MGT 3630 or MGT 3010.

4810. Seminar/(1-3). On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Health Care Management (HCM)

Thomas McIlwain, Director

A Bachelor of Science in Business Administration (BSBA) degree with a major in health care management (HCM) may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree. This program is intended for students who plan to seek careers in a variety of inpatient, ambulatory and other health care settings, to include general acutecare and psychiatric hospitals, primary care facilities, medical group practices, long term care facilities, public health organizations, health insurance companies, alternative delivery organizations, federal, state and local agencies and other health-related organizations and services.

HCM 3110	Health Care Organization and Administration	3 s.h.
HCM 3130	Managing U.S. Health Care System Resources	3 s.h.
HCM 3900	Internship in Health Care Management	6 s.h.
HCM 3950	Planning & Marketing Health Care Services	3 s.h.
HCM 4550	Health Care Policy	3 s.h.
HCM 4570	Health Care Financing	3 s.h.
HCM 4580	Health Services Program Evaluation and Research	3 s.h.

Suggested electives in the College of Business include the following:

FIR 4910	Hospital and Health Care Law
ECO 4610	Economics of Health Care
ACC 3550	Accounting for Nonprofit Organizations
HCM 4560	Issues in Health Care Administration

In addition, many academic departments outside the College of Business offer courses which closely complement the health care management major. These are found especial-

ly in the department of sociology, psychology, biology, political science, health education, anthropology and counselor education and research.

Courses of instruction in health care management (HCM)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

3110. Health Care Organization & Administration/(3).F;S.
This course shall focus on the organization and administration of health care services in the U.S. with occasional reference to foreign service systems. The course will examine health system structure and administration at the Federal, state and local level and will also differentiate between public and private sector health care efforts. The course, in addition, is designed to provide an elementary understanding of the various forces which shape the health care system and those issues of relevance to the future of health care.

3130. Managing U.S. Health Care System Resources/(3).F;S.
This course shall focus on the service and personnel resources which make up the U.S. health care system. Considerable attention shall be devoted to the nature of the various U.S. health care service settings to include detailed presentations on all forms of inpatient, ambulatory, and home and community-based care. In addition, the course will provide an introduction to the planning, organization, influencing, and controlling of various types of health care personnel and their service system functions. Finally, the course shall identify new/emerging health care settings and health care personnel. Prerequisite: HCM 3110 or concurrent with HCM 3110 and permission of instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a S/U basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3900. Internship/(6).F;S;SS.
A full-time work experience in health care management and limited to College of Business majors. Six semester hours are granted for a 10-week internship during the summer in a health care facility, service or program. Prerequisite: admission to the College of Business and permission of department chairperson and internship coordinator. Additional prerequisites for health care management majors include: HCM 3110 and 3130. Graded on a S/U basis.

3950. Planning and Marketing Health Care Services/(3).S.
This course shall focus on the various methods used in planning for health care services at the national, local and organizational levels. Concepts of marketing and their applications to the health care industry shall be examined. The course shall require the student to participate in a marketing exercise involving a health care setting such as a hospital unit, hospice, health maintenance organization, or home health care agency, etc. Prerequisites: HCM 3110, MKT 3050.

Senior/Graduate Courses
4530-4549. Selected Topics/(1-4).On Demand.
Prerequisite: HCM 3950, or permission of instructor.

4550. Health Care Policy/(3).F;S.
The course will examine the process by which health care policy is formulated and implemented. Specific examples of major health policy issues will be drawn from federal and state sectors and will focus on personnel, financing and health care program development. Other critical policy issues to be examined through case studies will include genetic engineering, organ transplantation and service competition. The impact of health care policy will be examined through site visitation at institution or program levels. Prerequisite: HCM 3110, 3130, 3950.

4560. Issues in Health Care Administration/(3).F.
An examination of topical environmental and managerial issues having current impact on the health care industry, with particular emphasis upon administrative implications.

4570. Health Care Financing/(3).F.
This course focuses on a variety of public and private third party mechanisms for financing health care services. A review shall be made of the various trends and constraints associated with each mechanism. Particular attention shall be paid to the role of private health insurance and government reimbursement mechanisms for health services. Prerequisites: HCM 3110, 3130, FIR 3680, or permission of instructor.

4580. Health Services Program Evaluation and Research/(3).S.
This course shall involve an overview of the fundamentals of health services program evaluation and research. Included are the techniques of program evaluation and an overview of the wide variety of methodological approaches currently being taken within the field of health services research to study and understand fundamental health care issues and problems. Prerequisites: HCM 4570, ECO 3100 or permission of instructor.

4910. Seminar: Hospital and Health Law/(3).On Demand.
This course is designed to provide students with a background in health and hospital law principles. Particular emphasis is placed on the basis of liability of public and private hospitals, other health care service organizations, and health care personnel. Other topics include contracts, torts, duties, and administrative agency regulations unique to health care services organizations. (Same as FIR 4910.)

Hospitality Management (HOS)

A Bachelor of Science in Business Administration (BSBA) degree with a major in hospitality management (HOS) may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree. This program is intended for students who plan to seek careers in the hospitality industry.

HOS 2000	Survey of the Hospitality Industry	3 s.h.
HEC 1202	Meal Management in Introductory Foods	3 s.h.
HEC 2204	Advanced Foods and Consumerism	3 s.h.
MGT 3620	Personnel Administration	3 s.h.
HOS 3700	Lodging Operations I	3 s.h.
HOS 3900	Internship	6 s.h.*
HOS 3930	Hospitality Law	3 s.h.

*The 600 hours work experience must be completed prior to graduation. 200 hours of practicum experience must be completed prior to enrollment in HOS 3900 (Internship).

In addition to the above required courses, each HOS major must complete 9 semester hours of course work from the following list of elective courses:

HEC 3202	Quantity Food Production I	3 s.h.
HEC 3204	Quantity Food Production II	3 s.h.
HOS 3800	Lodging Operations II	3 s.h.
LS 4550	Travel and Tourism	3 s.h.
HEC 3320	Facilities Design and Maintenance	3 s.h.
MGT 4070	Entrepreneurship	3 s.h.
HOS 4810	Senior Seminar	3 s.h.

*3 of these credits can be applied to completion of the HOS major; the other three will be counted as COB elective credits.

Courses of instruction in hospitality management (HOS)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

2000. Survey of the Hospitality Industry/(3).F.
A survey of the history, likely direction, and organizational structure of the hospitality industry and their place of this industry in the local and national economy. Some study of the problems originating in the operation and administration of various segments of the hospitality industry will be introduced.

3500. Independent Study/(1-3).F;S;SS.

3700. Lodging Operations I/(3).S.
The content of this course involves the concepts and applications of management of food and beverage operations in lodging businesses. Topics such as catering, banqueting, conferences and group functions, food service, and controls will be presented. Management approaches will be developed to provide quality service in today's lodging market. Prerequisite: HOS 2000 and admission to College of Business.

3800. Lodging Operations II/(3).F.
This course is designed to provide the student with knowledge of lodging operations, which include hotels, cruise ships, resorts, motels, conference centers, casino hotels, and recreational parks. Lodging operations will be analyzed from a systems perspective, with particular focus on operational standards, technology, and organizational culture. Case studies will be presented to illustrate issues and problems of operations and functional areas of properties such as marketing, rooms division, engineering, accounting, human resources, security, and food and beverage. Additionally texts, guest speakers, articles, and job standards will provide additional resources which focus on lodging operations. Prerequisite: HOS 2000, 3700 and admission to the College of Business.

3900. Internship/(6).F;S;SS.
A structured learning experience in a service corporation, designed to prepare the student intern for a professional management career. Six hours credit will be given for a minimum of 400 hours (10 weeks) of management training. Three of those credits will count toward completion of the HOS major; the other three will be counted as COB elective credits. A research or topical paper related to the company will be required. Each student will be evaluated on his/her completion of goals previously set by the student, intern coordinator, and company field supervisor. Prerequisite: admission to the College of Business, permission of the internship coordinator for hospitality majors, and a minimum of 9 hours completed in the major. Grading is on an S/U basis.

3930. Hospitality Law/(3).S.
Laws applicable to ownership and operation of hotels, restaurants and resorts. Consideration of contracts, real property, ownership forms, torts, liabilities, duties and administrative agency regulations. Prerequisite: HOS 2000.

Senior/Graduate Courses
4810. Seminar/(3).S.
An integrative and applied hospitality management course allowing students to exercise analytical and decision making skills through projects, cases and simulation exercises. An indepth discussion of critical issues affecting the hospitality industry. Prerequisite: All courses in the College of Business Core (except MGT 4750) HOS 2000, 3700, HEC 3202, MGT 3620 program and at least 400 hours of work experience.

Department of Marketing (MKT)

Ronald H. King, Chairperson

The objective of the Department of Marketing is to develop responsible and successful business leaders by providing undergraduate and graduate education in the field of marketing.

Bachelor of Science in Business Administration

(with a major in marketing)

A Bachelor of Science in Business Administration (BSBA) degree with a major in marketing consists of 18 hours in addition to the College of Business core courses required for the BSBA degree. Fifteen hours come from the structured marketing core and three hours from marketing elective courses. To graduate with a major in marketing will require a 2.0 (C) grade-point average in the 18 s.h. of marketing courses required of the marketing major.

Marketing core

MKT 3220	Sales Management	3 s.h.
MKT 3240	Advertising Management	3 s.h.
MKT 4230	Distribution and Transportation Management	3 s.h.
MKT 4250	Marketing Research	3 s.h.
MKT 4610	Consumer Behavior	3 s.h.

One elective chosen from the following: . . . . . 3 s.h.

MKT 3210	Retail Management
MKT 3230	Industrial Marketing
MKT 3530-3549	Selected Topics
MKT 4100	Marketing Management
MKT 4550	International Marketing

In addition to the above requirements, each marketing major must complete a minimum of six semester hours respectively in College of Business courses numbered 3000 or above. These elective hours may be in additional marketing courses, accounting, business communications, computer information systems, management, finance or economic theory. An internship may be elected to provide practical experience, with academic credit, in the marketing field.

Undergraduate minor in marketing

A minor in marketing for non-business majors may be obtained by completing the following 18 hours of requirements with a minimum overall GPA of 2.0 over the courses used to meet minor requirements:

I. Required courses:

ECO 2030	Principles of Economics—Price Theory	3 s.h.
ACC 2100	Principles of Accounting I	3 s.h.
MKT 3010	Survey of Marketing	3 s.h.

II. One course from the following: . . . . . 3 s.h.

ACC 2110	Principles of Accounting II
ECO 2100	Business and Economic Statistics
FIR 2150	Legal Environment of Business
CIS 2660	Introduction to Management Information Systems

III. Two courses from the following: ..... 6 s.h.

MKT 3052	Personal Selling
MKT 3239	Survey of Advertising
MKT 4609	Survey of Consumer Behavior
MGT 3030	Introduction to Small Business Management

Total hours for the minor in marketing ..... 18 s.h.

It should be noted that ECO 2030, Principles of Economics—Price Theory can also count for social science credit in general education requirements. It is strongly recommended that the 2000 level courses be completed in the sophomore year. The courses at the 3000 and 4000 level should be taken in the junior or senior year after the student has been admitted to one of the degree-granting colleges.

Courses of instruction in marketing (MKT)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

2500. Independent Study/(1-4).F;S.

3010. Survey of marketing/(3).F;S.
This course is not open to business majors for credit.
An introductory study of the marketing process in advanced market economies. Consideration of psychological theories and determinants of buyer behavior. A background in the elements of the marketing mix, the product distribution structure, the price system, and promotional activities. Survey of marketing in special fields. Planning and evaluating the marketing effort. Prerequisite: ECO 2030.

3050. Principles of Marketing/(3).F;S;SS.
An introductory study of the marketing process in advanced market economies. Consideration of psychological theories and determinants of buyer behavior. A background in the elements of the marketing mix; the product distribution structure, the price system, and promotional activities. Survey of marketing in special fields. Planning and evaluating the marketing effort. Using computers to analyze marketing data; quantitative aspects of the marketing function. Prerequisite: admission to the College of Business.

3052. Personal Selling/(3).F.
This course is not open to business majors for credit.
The principles of salesmanship and their application to sales situations, the economic and psychological motivations underlying customer purchases and product performance as they affect sales of industrial and consumer goods and services.

3210. Retail Management/(3).F;S.
Focus is on operational problems, retail store organization, location analysis, buying, selling, sales promotion, service, and merchandise handling. Case analysis of managerial problems in retailing establishments. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

3220. Sales Management/(3).F;S.
Management of sales force. Quantitative techniques and behavioral research applied to planning, organizing, directing, and controlling field sales effort. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

3230. Industrial Marketing/(3).F.
A study of the nature and importance of the industrial market to include classification of industrial products, characteristics and determinants of industrial market demand and application of marketing strategy of industrial marketing. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

3239. Survey of Advertising/(3).S.
This course is not open to business majors for credit.
Intensive investigation of the field advertising including a review of the history and economics of

advertising, research, copy, layout, production, budgeting, and organization. Theory and application are stressed. Prerequisite: MKT 3010 with a minimum grade of "C" (2.0).

3240. Advertising Management/(3).F;S.
Intensive investigation of the field of advertising to include a review of the history and the economics of advertising, research, copy, layout, production, budgeting, and advertising organization. Theory and application are stressed. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistance/(1).F;S.
A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On demand.
Prerequisite: junior or senior standing: MKT 3050 with a minimum grade of "C" (2.0).

3900. Internship/(6).F;S;SS.
A full-time work experience in business, usually limited to College of Business majors. Six semester hours are granted. Prerequisite: Admission to the College of Business, MKT 3050 with a minimum grade of "C" (2.0), and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

4100. Marketing Management/(3).S.
An integrated course in marketing, systematically oriented with emphasis on the marketing mix, the formulation of competitive strategies, and special attention to market analysis, marketing information, and sales forecasting. Case analysis is stressed. Prerequisites: MKT 3050 with a minimum grade of "C" (2.0) and senior standing.

4230. Distribution and Transportation Management/(3).F;S.
An analysis of the subsystems of physical distribution including transportation, warehousing, inventory control, material handling, industrial packaging, order processing, and location analysis. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0); ECO 3100, and senior standing.

4250. Marketing Research/(3).F;S.
Techniques involved in the collection, tabulation and analysis of marketing information. The analysis will include experimental design, factorial analysis, and regression analysis. Prerequisites: MKT 3050 with a minimum grade of "C" (2.0); ECO 3100 and senior standing.

Senior/Graduate Courses

4550. International Marketing/(3).F;S.
An analysis of cultural, legal, political, and economic factors affecting marketing in world markets. Emphasis is placed upon the differences in life styles, beliefs, attitudes, behaviors, and their influence upon the marketing decisions of the foreign firm. Prerequisites: MKT 3050 with a minimum grade of "C" (2.0) and senior standing.

4609. Survey of Consumer Behavior/(3).S.
This course is not open to business majors for credit.
An examination of the psychological, sociological, and economic theories of buyer behavior. Prerequisite: MKT 3010 with a minimum grade of "C" (2.0) and senior standing.

4610. Consumer Behavior/(3).F;S.
An examination of the psychological, sociological, and economic theories of buyer behavior. This is followed by analysis of the major current and classical empirical research studies designed to test the different theories of buyer behavior. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0); ECO 3100 (or its approved alternative) and senior standing.

4810. Seminar/(1-3).On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

The Reich College of Education

Benjamin F. Strickland, Dean
Mae Reck, Associate Dean
Alexander Erwin, Assistant Dean

The Reich College of Education has primary responsibility for the preparation of elementary, middle grades and secondary teachers, as well as teachers in special subject areas, library media coordinators, reading teachers, reading specialists, special educators, speech pathologists, supervisors, audiovisual specialists, counselors, teachers of higher education, administrators for the public schools and institutions of higher education, and related human development specialists for community agencies. One goal of the college is to provide an efficient delivery system of preservice and inservice preparation to individuals pursuing a career in any of the above listed areas. Additionally, the college houses a national resource center for developmental educators and the Bachelor of Technology program.

National Center for Developmental Education

Hunter Reed Boylan, Director

The National Center for Developmental Education offers a variety of resources and services to college and university personnel throughout the United States who are concerned with the educational needs of academically underprepared college students.

The center resources include a specialized library and a computerized network linking persons from across the nation knowledgeable in the ways of teaching, counseling and motivating underprepared students. The center offers conferences, workshops and seminars for practitioners in the field; conducts research, and works closely with the Department of Leadership and Higher Education in the implementation of the graduate programs in developmental education. The center also sponsors the Kellogg Institute for the Training and Certification of Developmental Educators, which provides advanced training to selected professionals from across the United States. In addition, the center publishes the leading periodical in the field, the *Journal of Developmental Education*, as well as a bi-monthly newsletter, *Research in Developmental Education*. The center also provides consultation and technical assistance to colleges and universities seeking to improve their programs and services to students with academic deficiencies.

Bachelor of Technology

Gerald Bolick, Coordinator

The Bachelor of Technology degree is housed in the Department of Leadership and Higher Education. This degree offers graduates of community and technical colleges who hold the Associate in Applied Science degree an opportunity to continue their education in business or industrial technology.

All students making application to the BT degree must meet the following requirements:

1. Show evidence that they have mastered the basic technical skills in their areas by

satisfactorily completing the requirements for an Associate in Applied Science degree or its equivalent in a business or industrial technology program.
2. Have a minimum GPA of 2.5 in their AAS work.
3. Submit an official transcript from the two-year school.
4. Submit a student application-data sheet, including a nonrefundable $15 processing fee.
5. Submit a medical form after admission to the BT degree is granted.

A minimum of 60 semester hours of the degree requirements must be earned at a senior college. Applicants accepted into this program are eligible only for the Bachelor of Technology degree.

To earn a BT degree, the following requirements must be met:

1. Completion of at least 30 semester hours at Appalachian State University. Students must maintain at least a 2.00 grade point average throughout the program.
2. Completion of the general education requirements (see the index under General College for general education requirements).
3. Completion of professional education requirements as follows:

LHE 4750, 4960, and 4980	9 s.h.
LHE 4900 (internship), 4970 (seminar)	9 s.h.
HPC 4840 or equivalent	3. s.h.
PSY 4670 or 4671	3 s.h.
TOTAL	24 s.h.

(Recommend, FDN 3100, Microcomputer in Instruction, K-12 ..... 3 s.h.)

4. Biological and physical sciences
   BIO 1101-1102
   CHE 1101-1102
   GLY 1101-1102; 1101-1103
   PHS 1001-1002
   PHY 1001-1002; 1101, 1105; 1101, 1106; 1103-1104; 1150-1151

   If six semester hours of a natural science have been completed prior to entrance into the BT degree, this requirement is considered completed.

   TOTAL 6-8 s.h.
5. Completion of an area of concentration consisting of 12-15 semester hours. The courses in the area of concentration are chosen with the approval of the area advisor from the departments whose offerings are related to the student's field of study, and include the appropriate methodology course: BE 4852, Methods of Marketing Education/(3) for business technology, or TEC 4619, Curriculum Development in Vocational and Industrial Education/(3), for industrial technology. The student must have at least a 2.00 grade point average on all work in the 12-15 hour concentration and the hours of professional education requirements completed at Appalachian.
6. Demonstration of proficiency in reading, speech, and written English. Proficiency tests must be taken during the first semester in which the student is enrolled.
7. Completion of residence requirements.
8. Compliance with regulations concerning settlement of all expense accounts.
9. Recommendation of the faculty.

The BT degree is not designed to prepare students for secondary school vocational certification. Those who wish to pursue secondary vocational certification should consult their advisor.

Meeting graduation requirements is the responsibility of the student.

Departments

The College of Education consists of the following departments:

- Curriculum and Instruction
- Human Development and Psychological Counseling
- Language, Reading and Exceptionalities
- Leadership and Higher Education
- Library Science and Educational Foundations

Degrees

The College of Education offers the Bachelor of Science degree leading to teacher certification in the fields of child development (K-4); elementary education (K-6); middle grades education (6-9); and K-12 certification in art education; health education, physical education; reading; and special education-mild/moderate handicapping conditions. The Bachelor of Science degree in habilitative science and in communication disorders, both of which are nonteaching and noncertification programs, are offered by the Department of Language, Reading and Exceptionalities. The Bachelor of Music degree with K-12 teacher certification is available in music education. The Bachelor of Science degree with teacher certification (9-12) may be earned in: business education; marketing education for teachers: driver and traffic safety education; English, secondary education; French, secondary education; history, secondary education; home economics with a concentration in secondary education; industrial education with a concentration in secondary education; mathematics, secondary education; Spanish, secondary education; speech teaching with a concentration in speech communication (K-12) or theatre arts (K-12); secondary education, biology, chemistry, geology, or physics; and social science, education (with a concentration in anthropology, economics, geography, history, political science or sociology).

For graduate degree offerings see the graduate section of this bulletin and the *Graduate Bulletin.*

The College of Education offers programs leading to the Bachelor of Technology—Business Technology and Bachelor of Technology—Industrial Technology degrees which are administered by the College of Education. These programs are for graduates of technical institutes, community colleges or technical colleges who desire careers in business, industry or teaching in technical institutes, community colleges or technical colleges.

Bachelor of Science Degree

(with teacher certification)

To earn the Bachelor of Science degree with teacher certification, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Demonstration of proficiency in reading, speech, and written English.
4. Completion of a major consisting of 24 to 56 semester hours from one of the fields listed below.

   art education (K-12)
   biology, secondary education
   business education
   chemistry, secondary education
   elementary education, (K-6)
   English, secondary education
   French, education (K-12)
   geology, secondary education
   health education, (K-12)
   history, secondary education
   home economics with a concentration in secondary education
   industrial education, secondary education
   marketing education
   mathematics, secondary education
   middle grades education (6-9)
   music education (K-12)
   physical education, (K-12)
   physics, secondary education
   social science education with a concentration in anthropology, economics, geography, history, political science, or sociology
   Spanish, education (K-12)
   special education-mild/moderate handicapping conditions (K-12)
   Speech teaching with concentration in speech communication (K-12) or theatre arts (K-12)

   A student must have at least a 2.50 grade-point average to be admitted to the College of Education and must maintain a 2.00 grade-point on all work in the major. Transfer students must complete at least eight semester hours of work in the major at Appalachian and have at least a 2.00 grade-point on all work at Appalachian in the major. With the exception of the science and social science majors, specific requirements for each major preface the list of courses offered by the department. Requirements for the interdepartmental majors of science and social science may be found by referring to those sections of the index.

5. Completion of professional education requirements as follows:
   elementary education/middle grades education, business education, marketing education, and health education (see program requirements in the Department of Curriculum and Instruction)
   special education and communication disorders (see program requirements in Department of Language, Reading and Exceptionalities)
   secondary education (9-12): CI/SPE 2800, FDN 3100 (or equivalent), FDN 3800, CI 3750 (or equivalent), PSY 3301, 3302, reading methods course, appropriate methods course(s), and CI 4900.

   Special subject majors (K-12): FDN 3800, CI/SPE 2800, CI 3750 (or equivalent), FDN 3100 (or equivalent)
   PSY 3301, 3302 ..... 6 s.h.
   Reading methods course ..... 2-3 s.h.
   Methods course or courses ..... See departmental requirements
   CI 4900 ..... 12 s.h.

   Students must earn 12 semester hours credit for student teaching.

A grade of 2.00 or higher must be made in each professional education course.

These courses may not be taken under the pass-fail grading system.

6. Electives to complete 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning settlement of all expense accounts.
9. Recommendation of the faculty.
10. State certification requires the successful completion of competencies in the teaching of reading. The department advisor should be consulted as to how the student's program meets the requirements.
11. Take the core battery I, II and III examinations and the specialty area examination, if available in the student's field, of the National Teacher Examinations. (The North Carolina State Board of Education has designated the National Teacher Examinations as the standard examinations required for initial certification.) A table of minimum cut-off scores is available in the Office of Field Experiences and Advisement (EDH 220).
12. Students entering the University as of fall semester of 1988 and majoring in special education (K-12), elementary education (K-6) or middle grades education (6-9) will be required to complete a second major in an academic area.

Procedures for entering the College of Education and applying for undergraduate teacher education

1. When students have completed 28 semester hours, including ENG 1000 and 1100, and have obtained at least a 2.00 GPA, they will be notified that they may officially declare their major. After the major is declared, the student's academic and advisement records will be forwarded to the degree granting college. The student will be assigned an advisor in her/his major area.
2. If an application for admission to the academic department is required, the chairperson of the academic department will be responsible for processing the application for admission into the department.
3. Students enrolled in elementary education (K-6), or middle grades education (6-9); health education, marketing education, business education, special education, or communication disorders, will be notified concerning their assigned advisor.
4. Transfer students will follow the procedures above.

Admission to the Reich College of Education for undergraduate teacher education

To be admitted to the Reich College of Education for a teacher education program, a student must have:

1. completed at least 60 semester hours.
2. a cumulative grade-point average of at least 2.50 (a grade-point average of at least 2.0 must be maintained thereafter). Transfer students with 60 or more semester hours must have the Appalachian Office of Admissions verify that they have maintained at least a grade-point average of 2.50 at the school from which they transferred. Such verification will be submitted to the dean of the Reich College of Education prior to enrollment in teacher education at Appalachian;
3. acceptable scores on NTE Core Batteries I and II;*

4. completed the Candidate for Professional Certification form (CPC);**
5. successfully completed CI/SPE 2800;
6. proficiencies in speech, reading, and English;
7. successfully completed the admissions questionnaire; and
8. recommendation from the admission, advisement and retention committee (AARC).

*Minimum passing scores are set by the North Carolina State Department of Public Instruction.

**The candidate for professional certification (CPC) form is required by the UNC General Administration and the North Carolina State Department of Public Instruction to determine how many students are enrolled in certification programs. The form is also used in initiating the certification process.

Steps in Admission Process

1. At the end of the sophomore year, students who have declared an intended major in teacher education are sent one of the following:
   a. a memo which outlines items completed or deficiencies that exist in fulfilling admission requirements.
   b. a memo which indicates that all admission requirements are met.
2. The Admission, Advisement, and Retention Committee (AARC) examines the student's folder, including the CPC form and the admissions questionnaire and makes a recommendation to the dean or his designee relevant to admission to teacher education. The Admission, Advisement, and Retention Committee has representatives from all degree-granting colleges.
3. After students have met all admission requirements and have received a positive recommendation by the Admission, Advisement and Retention Committee, the dean's office sends a letter of acceptance to the applicant.

The 50 Percent Rule

The North Carolina Quality Assurance Program limits the progression of potential undergraduate candidates in teacher education programs to introductory courses only and to no more than one-half of the total professional studies courses, exclusive of student teaching, until formal admission requirements have been satisfied.

Students will be permitted to take only the following courses before being formally admitted to a teacher education program:

Elementary Education (K-6)	
CI/SPE	2800
FDN	3100
COM	1100
FDN	3800
PSY	3301
PSY	3302

Special Education (K-12)	
FDN	3100
FDN	3800
COM	1100
PSY	3301
PSY	3302
CI/SPE	2800
CI	3750

Secondary (9-12) and Special Subject Areas (K-12)	
CI/SPE	2800
FDN	3800
PSY	3301

Middle Grades (6-9)	
CI/SPE	2800
COM	1100
FDN	3800
PSY	3301
PSY	3302

Be aware that **native students** must have taken both core batteries I and II, achieved a 2.50 GPA and established proficiencies in reading, English, and speech.

Transfer students must present evidence of application for core batteries I and II or have taken core batteries I and II, indicate successful admission to the University, and show evidence of achieving proficiencies in English, speech, and reading.

Speech pathology students will also be allowed to enroll in CD 2259, 2261, 2262, 2265, and 2266. (These are typically sophomore level courses.)

Those students who have already completed the above courses will be allowed to enroll in other professional education courses only if they obtain the approval of the appropriate department chairperson within the College of Education.

Students will not be allowed to proceed in the college beyond the above mentioned course restrictions until all entrance requirements have been successfully completed.

Advisement

All freshmen will be advised in the office of General College. **ALL** teacher education students are assigned an advisor when a teacher education major is declared. Advisement is mandatory and students will **not** be allowed to preregister until they have consulted with their advisor. Complete advisement information upon acceptance into the College of Education and for certification is available from the Office of Field Experiences and Advisement (EDH 220). Students are urged to check with the Office of Advisement upon their decision to become a teacher. Advisement within the college is an ongoing process and generally proceeds with the following steps.

1. All students entering Appalachian State University are required to attend an orientation session prior to registration. Students desiring to major in teacher education programs meet with representatives from the Reich College of Education. **During the orientation meeting and throughout the advising process, students are informed of the probability of their success regarding admission to and continuation in a teacher education program within the University.**
2. All students in General College have mandatory advising with an advisor, not necessarily in the student's major area. A record of advising sessions during the General College and after a person is admitted to a teacher education program is kept on Form A.
3. After moving from General College and officially declaring a teacher education major as a career goal (prior to 60 semester hours), students will be assigned an advisor in their major.

a. Elementary education (K-6/6-9), middle grades, special education, communication disorders, business education, marketing education, and health education students will meet with an advisor from the Reich College of Education.
b. Secondary education (9-12) and special subject (K-12) majors will meet with an advisor from their major department and with an advisor from the Reich College of Education.

4. After being admitted to teacher education, students will be advised as follows.
   a. Reich College of Education majors will continue to be advised by an assigned advisor in the appropriate major within the college.
   b. Secondary education (9-12) and special subject (K-12) majors will continue to be advised by an advisor in their major department and by a Reich College of Education advisor.

As students move through their teacher education program, their progress will be carefully monitored by personnel in the dean's office using the student information system (SIS) and by examining grade reports at the end of each term.

Proficiency Requirements

All students who are candidates for baccalaureate level teacher certification must pass proficiencies in reading, speech, and written English. These proficiencies should be completed during the freshmen and/or sophomore years. Transfer students in teacher education also must pass these proficiencies. Only students who have completed their proficiencies will be admitted to the teacher education program. Specific information on meeting requirements is presented below:

Native students (defined as students who begin careers at Appalachian)

Speech proficiency— completion of COM 1100, two semester hours with a 2.00 or better

English proficiency— completion of ENG 1000, three semester hours, freshmen English course with a 2.00 or better.

Reading proficiency— Taking the Nelson-Denny Test upon entering Appalachian and scoring 80 or better. If the score is less, a student must enroll in RE 0100, three semester hours. Upon successful completion of the course with a 2.00 or better, the student will be declared proficient.

Transfer Students

Speech proficiency— If a student has had a comparable speech course (COM 1100) at the former school, the student must make an appointment with the Speech and Hearing Center in the College of Education to be tested in communication. If the student has not had a speech course, she/he must enroll in COM 1100. Upon successful completion of this course with a 2.00 or better, the student will be declared proficient.

English proficiency— Students transferring freshman English must take the test administered by the Testing Center. If an unsatisfactory grade is recorded, the student must enroll in ENG 2000. Upon successful completion of this course, the student will be declared proficient.

Reading proficiency— The student must take the reading test administered by the Testing Center. If the student scores 80 or less, the student must take RE 0100. Upon successful completion of this course with a 2.00 or better, the student will be declared proficient.

Student teaching

During the sixth, seventh or eighth semester students who are taking undergraduate programs of study leading to teacher certification will student teach for one semester in the area, at the appropriate level of preparation. This work will consist of full-time teaching under the supervision of a competent and experienced teacher. Student teaching provides the student with a professional field experience in the most appropriate area. There are no provisions at present to fulfill the student teaching requirement during the summer session.

Students will be notified in advance concerning the semester and location of their assignment. Student teaching assignments in off-campus schools will conform to the local schools schedule and calendar.

Special field experience programs may be available during the sophomore, junior and senior years. Information may be obtained from the appropriate department chairperson or the director of field experiences in the College of Education.

Internship

Students planning to take internships/practica should contact individual departments in the College of Education to inquire about requirements and procedures for entering these experiences.

Conditions prerequisite to student teaching

The following requirements must be met prior to student teaching:

1. All proficiencies and professional education courses including methods courses must have been completed satisfactorily with a grade of 2.00 or better.
2. A student who has completed all prerequisites for student teaching will be unconditionally placed. Others may be tentatively placed until all prerequisites have been satisfied. However, no student will be permitted to student teach unless all prerequisites have been satisfied.
3. Elementary education (K-6). A student must have the approval of the chairperson of the Department of Curriculum and Instruction. Prior to student teaching, elementary majors must have satisfactorily completed CI 2800, CI 3110, RE 3140; RE 3900, CI 4000, CI 4030, PSY 3301, PSY 3302, GS 4401, FDN 3100, FDN 3800, and CI 3750. Middle grade education majors must have CI 2800, CI 3140; CI 4150; RE 4620; PSY 3301, PSY 3302; FDN 3800, FDN 3100; CI 3750 and two (2) required methods courses.
4. Secondary majors (9-12). Prior to student teaching, secondary majors will have completed proficiencies in reading, speech, and written English; FDN 3800, and CI 2800, CI 3750 (or equivalent); FDN 3100 (or equivalent); PSY 3301 and 3302, and the

required methods courses. RE 4630 may be taken after student teaching. English majors are required to take RE 4620 in lieu of RE 4630 prior to student teaching.

5. Special subject (K-12) students (art, health education, music, physical education, foreign languages, and special education) must take the following prerequisites prior to student teaching: CI 2800, CI 3750 (or equivalent), FDN 3100 (or equivalent), FDN 3800, PSY 3301 and 3302 and the required methods course(s). Also, special subject students must refer to departmental requirements concerning prerequisites for student teaching.
6. Each applicant must agree to student teach full-time for one semester.
7. Students seeking multiple certifications must make particular arrangements with the director of field experiences to meet student teaching requirements.

Steps in application for student teaching

1. Students must have been released from General College and must have been admitted to both the Reich College of Education and the teacher education program before they will be allowed to student teach. (See the appropriate section of this catalog for specifics.)
2. Those students planning to student teach in either the fall or spring semesters of a given academic year must attend the student teaching orientation meeting one year prior to their actual placement and contact the Office of Field Experiences for date, time, and location of the meeting.

   A. Students attending the orientation meeting will receive:
      1) Copies of application for student teaching forms.
      2) A copy of the teacher education—information sheet. This sheet lists the requirements for admittance to the teacher education program, requirements in the teacher education program and prerequisite courses for student teaching. Note:

      Note: The application forms must be completed by the student and returned to Office of Field Experiences (EDH 220).

   B. Additional information presented at the orientation meeting will include:
      1) Identification of possible geographic placement areas;
      2) Identification of student teacher supervisors within each placement area; and
      3) General procedures/rules concerning placement, course prerequisites, and advising procedures.

   Students having questions concerning particular student teaching situations should contact the director of field experiences in Edwin Duncan Hall, Room 220.

Teacher certification

All Appalachian State University teacher education programs have received appropriate approval by the State Board of Education and lead to North Carolina teacher certification.

Persons who are college graduates with nonteaching degrees or who wish to certify in a second teaching area and who desire to redeive teacher certification from Appalachian State University will indicate this in writing to the office of the dean of the College of Education PRIOR to arrival on campus. At the same time, they will indicate the area and level in which they desire certification and will send complete transcripts of all previous college study. No certification commitments will be made by the University until transcripts

have been received and reviewed by the chairperson of the involved academic department (where applicable) and the appropriate records advisor of the dean of the College of Education. A person seeking such certification may expect to meet the same certification requirements and demonstrate proficiencies required of regular Appalachian State University students seeking similar certification.

The certification process begins and ends in the office of the dean of the College of Education. Planning conferences with all persons involved in determining the program of study will be necessary. Certification commitments will be finalized only upon completion of these conferences.

Interdepartmental concentrations leading to teacher certification in science education

A curriculum leading to the Bachelor of Science degree and teacher certification in science education consists of professional education requirements as described in that section of the catalog. Note specific requirements as listed under the departments of biology, chemistry, geology or physics, secondary education.

Teacher education certification in social science education (undergraduate)

The Bachelor of Science degree and teacher certification consists of course work in social science including the general education requirements in social science. These requirements must include a core (54 semester hours) consisting of ANT 1215 and 2400, ECO 2030 and 2040; GHY 1010, 1020, and 4200; HIS 1101, 1102, 2101, 2201 and 2204; PS 1100, 2130, and 3240; SOC 1000 and 2000; and STT 3810 (students concentrating in economics may complete either STT 3810 or ECO 2100 but cannot count both towards the major). A concentration is also required in one of the social sciences. These concentrations are described below. A student majoring in social science education should select MAT 1020 to satisfy the mathematics requirement in general education.

A concentration in anthropology for the social science education degree must include nine semester hours in anthropology chosen in consultation with the departmental advisor.

A concentration in economics for the social science education degree must include ECO 3010, 3020, and three additional semester hours in economics numbered 3000 or above. MAT 1030 is recommended.

A concentration in geography for the social science education degree must include GHY 2310, 3013, 3200 and 3210.

A concentration in history for the social science education degree must include HIS 4100 and nine semester hours in history chosen in consultation with the department advisor.

A concentration in political science for the social science sducation degree must include one three semester hour course from each of the three following groups: (A) PS 3110, 3210, 4310, 4270; (B) PS 3130, 3150, 3230, 4230; (C) PS 3120, 3280, 3630, 4175.

A concentration in sociology for the social science education degree must include nine semester hours in sociology chosen in consultation with the departmental advisor.

Graduate degrees

The College of Education offers the Master of Arts degree in agency counseling, community education; curriculum specialist (education supervision certification); education administration, community education; education administration, school administration; educational media; elementary education (K-6); higher education, administration; higher education, adult education; higher education, developmental studies; higher education, teaching; instructional technology/computers; middle grades education (6-9); reading education; counseling and guidance (school counseling K-12); special education/emotional disturbance; special education/learning disabilities; special education/mental retardation; special education/severe-profound; speech pathology/communication disorders; student development. The Specialist degree is offered in counselor education; curriculum and instruction; educational administration; educational media (for librarians); teaching; higher education, administration; higher education, teaching; reading education; special education. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Department of Curriculum and Instruction (CI)

Doris Jenkins, Chairperson

The Department of Curriculum and Instruction offers undergraduate degrees in elementary education (K-6), health education, middle grades education (6-9), business education, marketing education and office systems management. Courses are also offered which lead to undergraduate certification at the K-12 and secondary school level (grades 9-12).

Master of Arts degrees are available in the areas of business education, elementary education (K-6), educational media, curriculum instructional specialist (educational supervision), and middle grades education (6-9). Educational Specialist degree programs are offered in curriculum and instruction and teaching. Courses which lead to graduate certification in secondary education are also available. See the *Graduate Bulletin* for additional information.

Undergraduate majors must pass reading, English, and speech (COM 1100, Introduction to Speech Communications) proficiencies before admittance to the Reich College of Education. Education majors must also successfully complete CI 2800 Introduction to Teaching before admission.

Bachelor of Science degree in business education (grades 9-12 certification)

Goals and objectives:

- Students are expected to develop the business knowledge, understandings, and skills as preparation for teaching.

- Students are expected to apply the learned subject matter in a classroom setting as a business education teacher.
- Students are expected to demonstrate competencies in subject matter knowledge, classroom management, teaching skill, learning psychology, and student evaluation.
- Students are expected to demonstrate their ability to foster learning development and applications through logical thinking, reasoning, and problem-solving regarding business and economic problems.

Business education majors must complete the following courses: ACC 2100, 2110, FIR 2150, MKT 3010, ECO 2030 (counts as general education requirement), 2040, 2100, BE 2110, 3340, 3380, 3895, 4510, 4610, 4650, CI 2800, 3170, 4900, FDN 3800, PSY 3301, 3302, and RE 4630 to complete required semester hours. A second major concentration in economics, psychology, English, mathematics or history is required of all business education majors. Students should see their advisors for assistance in selecting a second major concentration. Business education majors are required to take core battery III and the business education area of the National Teacher Examination. NOTE: Students should check with the Office of Field Experiences PRIOR to making application for core battery III.

(All courses with the exception of ECO 2030 and elective choices must be completed with the grade of "C" (2.0) or better.)

Bachelor of Science in elementary education (grades K-6 certification)

Students in the degree are expected to demonstrate:

- mastery of basic content in several basic disciplines, including communication skills, mathematics, and sciences, the social sciences, health education, and cultural and applied arts.
- knowledge of the principles of curriculum and learning theories and understanding of their relationship to instructional programs for children.
- successful teaching in a variety of learning environments and in the various subject matter areas included in their preparation program.
- effective instructional practices, including planning, implementing, evaluating, and reflecting.
- knowledge of contemporary issues and trends in education within a historical, philosophical, and sociological framework.
- an understanding of human growth and development with emphasis on the elementary years.

Students preparing to teach in the elementary grades (K-6) must be proficient in math and complete the following courses: COM 1100*; GHY 1020*; HIS 2201* or 2204*, 2210*; ART 2011*, 2020†; MUS 2020†, 2021†; PS 1100* FDN 3100†, 3800†; CI 2800†, 3110†, 4000†, 4030†, 3750†, 4900; PE 3556†; HED 3645†; PSY 3301†, 3302†; GS 4401†; RE 3140†, 3900†. A second major selected from anthropology, biology, chemistry, economics, English, French, geography, geology, history, mathematics, music, philosophy/religion, physics/astronomy, political science, psychology, Spanish, speech, or theatre arts is required of all elementary education majors. Majors preparing for grades K-6 are required to take the core battery III and the early childhood education or education in elementary

area of the National Teacher Examination. NOTE: Students should check with the Office of Field Experiences prior to making application for core battery III.

(†Must be completed with a grade of "C" (2.00) or better. *May not be taken on pass-fail option.)

Bachelor of Science in health education (grades K-12 certification)

Upon the completion of the degree, the health education graduate will:

- describe the discipline of health education and its foundation in learning theory and the biological and behavioral sciences.
- explain the role and function of the health educator in schools, community agencies, work sites, and hospitals and clinics.
- identify important concepts of nutrition, consumer health, family life/sexuality, mental health, chronic and communicable diseases, first aid and safety, and environmental health.
- demonstrate a variety of methods and skills in planning, implementing and evaluating health education programs.
- identify resources in health education and explain the interaction of schools and agencies in health promotion efforts.

Students preparing to teach health education, (K-12) must complete the following courses: COM 1100†, CI 2800†, 3750†, 4900; FDN 3100†, 3800†; PSY 3301†, 3302†, RE 4630†. Courses for the major include: HED 2100†, 3100†, 3120†, 3450†, 3655†, 3900, 4650; HEC 2202; HP 2200, HPC 4710; ES 2000; and, six semester hours of biology. Health education majors must also complete a second major concentration selected from the following subject areas: anthropology, biology, chemistry, economics, English, French, geography, geology, history, mathematics, philosophy/religion, physics/astronomy, political science, psychology, Spanish, music, speech or dramatic arts.

(†Must be completed with a grade of "C" (2.00) or better)

Minor in health education, general (teaching majors)

A minor for those students with or working towards a teaching certificate in a subject area other than health education. This minor fulfills the North Carolina Department of Public Instruction requirements for endorsement. An endorsement allows an individual to teach less than one-half time in health education. A minor consists of 18 semester hours. Required courses are HED 3450, 3655, 4650; HPC 4710; and HED/HP 3100. One course may be selected from HED 2100, 3120 and HEC 2202.

Bachelor of Science in marketing education (grades 9-12 certification)

Goals and objectives:

- To provide preparation in the area of specialized professional competencies in sufficient depth to develop the required professional marketing competencies identified.
- To provide preparation in an area of concentration in sufficient depth to develop the required technical marketing competencies.

- To provide for enough appropriate marketing occupational experience to enable prospective teachers to develop saleable skills in at least one area.

Marketing education majors must take the following courses: ACC 2100, 2110; ECO 2030 (counts for general education requirement), 2040, 2100; COM 1100; FIR 2150; MKT 3050, 3210, 3240; BE 3380, 4610, 4850, 4851, 4852; CI 2800, 3750, 4900; FDN 3100, 3800; PSY 3301, 3302; and RE 4630 to complete the required semester hours. A second major concentration in economics, psychology, English, mathematics or history is required of all marketing education majors. Students should see their advisor for assistance in selecting a second major concentration. Marketing education majors are required to take core battery III of the National Teacher Examination. NOTE: Students should check with the Office of Field Experiences PRIOR to making application for core battery III.

(All courses with the exception of ECO 2030 and elective choices must be completed with the grade of "C" or better.)

Bachelor of Science in middle grades education (grades 6-9 certification)

The degree seeks to prepare teachers who:

- are knowledgeable about the developmental stage of early adolescence and aware of the educational implications of that knowledge.
- have in-depth knowledge in at least two subject matter areas.
- have specialized skills and knowledge regarding appropriate teaching strategies for middle grades students.
- have a clear, working knowledge of the concept of developmentally responsible models of middle level schooling.

Students preparing to teach in the middle grades (6-9) must complete the following courses: FDN 3100†, 3800†; CI 2800†, 3140†, 3750†, 4150†, 4900; COM 1100†; PSY 3301†, 3302†; RE 4630†; and academic concentrations from any two of the following areas with the two appropriate methods courses (CI 3060†, 4040†; RE 3150†, GS 4402†); language arts, mathematics, science, and social studies. Students concentrating in science must select at least eight semester hours in biology, eight semester hours in geology, and eight semester hours equally divided in physics and chemistry for a total of at least 24 semester hours. A minimum of 15 hours above general education requirements is required in each of the two selected concentrations. A second major selected from anthropology, biology, chemistry, economics, English, French, geography, geology, history, mathematics, physics/astronomy, political science, or Spanish is required of all middle grades majors. Middle grades majors are required to take the core battery III and the area of one of their concentrations of the National Teacher Examination. NOTE: Students should check with the Office of Field Experiences prior to making application for core battery III.

(†Must be completed with a grade of "C" (2.00) or better. *May not be taken on pass-fail option.)

Bachelor of Science in office systems management

Office systems management majors must take the following courses: ACC 2100; ECO 2030 (counts for general education requirement), 2040, 2100; CIS 2660, 3550; FIR 2150,

3680; MKT 3010; MGT 3020; BE 2110, 3340, 3380, 3820, 4510, 3900, 15 semester hours spread among two concentrations, and electives to complete the required semester hours. No more than six semester hours can be taken in the College of Business in the categories of electives and/or concentrations.

(All courses with the exception of ECO 2030 and elective choices must be completed with the grade of "C" (2.0) or better.)

Secondary education (grades 9-12 certification)

The PROFESSIONAL REQUIREMENTS FOR CERTIFICATION in secondary education are as follows:

CI	2800	Introduction to Teaching	4 s.h.
FDN	3100	Classroom Use of Microcomputers in Grades K-12 (or equivalent)	2 s.h.
FDN	3800	Foundations of American Education	3 s.h.
CI	3750	Audiovisual Instruction (or equivalent)	2 s.h.
PSY	3301	Developmental Psychology	3 s.h.
PSY	3302	Educational Psychology	3 s.h.
Methods course(s)		in area of teaching specialty	2-3 s.h.
RE	4630	Reading in the Content Areas	2 s.h.
(English majors take RE 4620 (3 s.h.) in lieu of RE 4630)			
CI	4900	Student Teaching	12 s.h.

A student preparing to teach a special area (grades K-12 in art, health, physical education, or music) must complete FDN 3100 (or equivalent), 3800; CI 2800, 3750 (or equivalent), PSY 3301, 3302; methods course or courses in the field of concentration; and CI 4900. Any course in the professional sequence transferred from another institution must be cleared by the department.

(All courses in the professional sequence must be completed with the grade of "C" (2.0) or better.)

Media studies minor

In addition to the programs listed above, a minor in media studies is available. This fifteen semester hour minor consists of the following courses:

Required courses:

CI	4820	Instructional Technology	3 s.h.
CI	4830	Critical Viewing Skills	3 s.h.

Other courses: nine additional hours must be selected with the advisement and approval of an advisor from the Department of Curriculum and Instruction.

Courses of instruction in curriculum and instruction, business education, and health education.

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see the index.)

Curriculum and Instruction (CI)

2020. Art in the Elementary School/(2).F;S;SS.
Experiences developing understanding of perceptual growth of the child, aesthetic content in art, concepts from elements in art forms, teaching methodology, and the teaching of an art unit in a laboratory setting. No prerequisite. Two hours per week lecture. Laboratory will include art experiences designed to increase the students' understanding of the artist's use of elements in art forms, media selected for adaptability into the elementary classroom, both two and three dimensional work. Two hours per week laboratory.

2800. Introduction to Teaching/(4).F;S;SS.
Basic conceptual introduction to the world of public education and the teaching of regular and special needs students. Students are also required to perform a minimum of 40 hours of observations. (Same as SPE 2800).

3031. Band Techniques and Materials/(2).S.
A survey of the materials and methods in teaching bands. Prerequisite: PSY 3302. (Same as MUS 3031).

3032. Choral Techniques and Materials/(2).S.
A survey of the materials and methods in choral teaching. Prerequisite: PSY 3302. (Same as MUS 3032).

3033. Orchestral Techniques and Materials/(2).S.
A survey of materials and methods employed in teaching orchestras. Prerequisite: PSY 3302. Music Education (string) majors only. Alternate years. (Same as MUS 3033.)

3035. Music in the Elementary School/(2).S.
Materials and methods in the field of music teaching in the elementary school. Music in the integrated program; emphasis on the creative phases and the development of musicianship; observation of teaching procedures with children. Designed for music majors. (Same as MUS 3035).

3036. Music in the Middle/Junior High School/(2).S.
A study of the organization and direction of the music program in the middle/junior high school. Materials for the changing voice, elementary theory, music appreciation, operettas and program building are surveyed. Designed for music majors. Prerequisite: MUS 3035 or CI 3035. (Same as MUS 3036).

3060. Social Studies in the Middle Grades/(2).F;S.
The place of social studies in the middle grades curriculum is examined. Objectives, instructional procedures, materials and evaluation criteria are emphasized.

3070. Teaching Theatre Arts/(3).S.
Methods, strategies, organization and administration for teaching classroom and production activities in theatre arts. Students will have teamed experiences in public school classrooms. It is strongly advised that other requirements for certification (except student teaching) be completed prior to taking this course.

3080. Teaching High School Mathematics/(2).F;S.
Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3090. Teaching High School Science/(2).F;S.
Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3100. Teaching High School Social Science/(2).F;S.
Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3110. Social Studies in the Elementary School/(2).F;S.
The place of social studies in the elementary curriculum is examined. Objectives, instructional procedures, materials and evaluation criteria are emphasized.

3120. Teaching Foreign Languages/(3).F;S.
A study of methods, instructional strategies, organization and administration for teaching second languages in the K-12 curriculum. Experiences will include development of unit and lesson plans, classroom observations and microteaching. It is strongly advised that other requirements for certification (except student teaching) be completed prior to taking this course. (Same as FL 3120.)

3131. Teaching Home Economics/(3).F;S.
Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3140. Interdisciplinary Internship/(3).F;S.
Acquaints teachers of early adolescents with the techniques of teaching as an individual and as a member of an interdisciplinary team. Planning and implementing learning programs which integrate subjects taught in the middle grades is emphasized. Lecture 30 hours; laboratory 90 hours.

3141. Teaching Physical Education/(2).F;S.
Students will have 30 hours of teamed experiences in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3160. Methods of Teaching Industrial Education/(3).F;S.
An introduction to methods, instructional strategies, organization and administration for teaching classroom and laboratory activities in industrial education subjects. Experiences will include development of unit and lesson plans, demonstrations, presentation, discussion techniques and field observation. Lecture three hours.

3170. Teaching Business Education/(2).S.
Students will have 30 hours of teamed experiences in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) is completed prior to the methods course.

3180. Teaching Speech Communication/(2).S.
Prerequisites: FDN 3800 and PSY 3302. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3190. Classroom Methods and Materials in Driver and Traffic Safety Education/(2).F;S.
It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3590. Theory and Practice in the Teaching of High School English/(3).F;S.
Theory and practice in the teaching of literature and writing at the secondary level. Prerequisites: ENG 3300 and 3400. It is strongly recommended that all other requirements for certification (except student teaching) be completed prior to this course. (Same as ENG 3590.)

3750. Audiovisual Instruction/(2).F;S;SS.
Primary focus is on media in relation to learning. Direct experiences with transparencies, slides, recordings, tapes, photography, television, and video are provided.

4000. Elementary School Curriculum and Instruction/(3).F;S.
The basic principles of curriculum and instruction as applied to five to twelve year old children are examined. Attention is given to traditional as well as innovative programs. Selecting, planning, and utilizing materials, methods, activities, and facilities suited to elementary children are emphasized. Learning programs are planned for specific classroom situations, and are implemented and evaluated during the course. Lecture 30 hours; laboratory minimum of 90 hours.

4030. Mathematics in the Elementary School/(2).F;S;SS.
A study of how children develop basic number concepts and learn to perform operations with natural numbers and fractions. Consideration of sequential learning experiences appropriate to each grade level.

4040. Mathematics in the Middle Grades/(2).F;S.
A study of how children develop problem-solving concepts and learn to perform operations with fractions and pre-algebra concepts. Consideration is given to sequential learning experiences appropriate for grades six through nine.

4150. The Middle Level School/(3).F;S.
A programatic study of the components of effective middle level schools based on the developmental characteristics of early adolescents and middle grades research. The course investigates the middle school philosophy and focuses on selected aspects such as team teaching, exploratory curricula and teacher-based advisory programs.

4421. Art Education: Age 13 Through Adulthood/(3).F.
Recommended to be taken concurrently with ART 4422. Art teaching-learning for teenagers through adults for public schools and on-traditional groups,

stressing personal development, concepts, environmental influences, and interdisciplinary relationships. Practicum experiences in middle school, high school, and relevant alternate sites. Prerequisites: ART 3421 and 3422. Prerequisites may be waived for non-certification students with permission of the instructor.

Senior/Graduate Courses

4740. Photography/(3).F;S;SS.
Basic theory, principles and techniques of black and white and color photography. Laboratory fee.

4770. Intermediate Photography/(3).F.
An intermediate photography course which strengthens skills previously acquired in black and white photography and introduces color photography. Prerequisite is a basic photography course or permission of the instructor. Fee.

4820. Instructional Technology/(3).S.
The course is intended to introduce students to the field of instructional technology including its theoretical and practical components. Students are introduced to traditional and emerging electronic communication systems and equipment, and consider the application such technology may have whether in education, business or industry. Particular attention is given to the instructional design process with emphasis placed on the relationship between the inception of a program or technology and the actual instruction application and implementation of it.

4830. Critical Viewing Skills/(3).F.
This course develops the ability to critically analyze and interpret media messages, particularly those conveyed through the visual channel. While particular attention is given to film and television, including educational and mass media programming and production, the course recognizes that both film and television developed out of photography and attention is therefore given to reading still images as well as moving images. This involves studying elements such as illustrations in children's books, photo-journalism and advertising.

4840. Production of Educational Videotapes/(3).F;S.
Introduction to the knowledge and technical skills needed to create effective, low-budget single camera video programs. Exposure to the different equipment and program formats commonly used in schools, training programs, and media centers. Experience in each of the three stages in the production process: pre-production, production, and post-production.

4900. Internship/Student Teaching/(6-12).F;S.
Teaching experiences under supervision for one semester for students who plan to teach in grades K-12. Graded on S/U basis.

4940. Film: Image and Influence/(3).S.
The course examines the relationship between cinema and society. The American Film industry is studied as a medium of mass communication with a potentially powerful influence. Film is examined from the sociological context and as historical evidence. Consideration is given to the ways in which films can be used for instructional purposes.

4950. Documentary Film/(3).F.
Students view and analyze a variety of documentary films in terms of both form and content. Emphasis is placed on understanding the wide range of purposes for which documentaries are made, and on examining the variety of techniques used to achieve those purposes. Students examine how and why every documentary is, to a varying degree, a creative treatment of actuality.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Business Education (BE)

1021. Introductory Keyboarding/(1).F;S.
A course designed to teach touch keyboarding skills to enable students to more efficiently use computer terminals, microcomputers, information processors, and other typewriter designed keyboards. NOTE: This will be a three-day a week, 6-week course run two times per class period per semester.

1030. Keyboarding/Typewriting/(3).F;S.
Study includes learning to type and set up letters and manuscripts. Orientation and practicum on word processing, data processing, and typewriting keyboards with traditional and electronic functions.

1060. Business Mathematics/(2).On Demand.
The fundamental process of mathematics and their fundamental process of mathematics and their application to common business practices. Topics included are trade, merchandising, valuation of assets, payrolls, taxes, insurance, banking, investments, credit, business ownership and distribution of earnings, and income taxes.

1590. Personal Money Management/(3).F;S.
Planning and managing personal finances. Emphasis is placed on controlling expenditures, consumption, emergencies, borrowing, insurance, home ownership, taxes, savings, investing, retirement, and personal estate planning.

2110. Word Processing/(3).F;S.
Study of electronic text editing and transcription activities (advanced applications in storing, retrieving, editing communications using word processing equipment). Included also are work with on-line systems, general purpose micros, special purpose word processing packages, networking, and advanced application. Prerequisite: BE 1030 or equivalent.

3150. Advanced Dictation and Transcription/(3).On Demand.
Advanced study of shorthand dictation and transcription as applied to office situations. Students may select special areas such as medical, legal, court reporting, educational and law enforcement. Special emphasis is placed on expertise in writing shorthand and transcribing Prerequisite: (2 semesters shorthand).

3340. Business Communications/(3).F;S;SS.
Specific instruction designed to develop competence in business communications: written communications, including letter, memorandum, and report writing; oral communications (individual and group); and nonverbal communications. Course intended primarily for business and business-related majors. Junior standing or permission of instructor is required.

3380. Administrative Office Systems/(3).F;S.
This course provides a generic overview of the automated office in order to give students a basic understanding of concepts and management concerns. Electronic office systems, information processing and equipment are explored from a management and practical perspective.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a S/U basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3820. Records Management and Control/(3).S.
Study of the planning, implementation, and maintenance of records management and control programs (creation, distribution, retention, utilization, storage, retrieval, protection, preservation, and final disposition) in organizations in order to reduce costs in handling records an to develop efficient systems and procedures for the storage and retrieval of records at the corporate level, public governmental units; local, state, regional and national levels.

3895. Administration and Supervision of Business Education/(3).SS.
Course covers the history and philosophy of business education and its place in secondary school programs. The overall organization and administration of business education as constituted at the secondary level is examined and evaluated. Establishing the curriculum for an effective program is given strong coverage in addition to evaluating and selecting equipment an instructional materials used in various business education courses.

3900. Internship/(6-9).F;S;SS.
A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisite: full admission to the College of Education, junior or senior standing, and permission of department chairperson and program coordinator. Graded on an S/U basis.

4030. Cooperative Office Education/(2). On Demand.
Actual work in an office. Group conferences to be arranged. (By permission of department only.) Prerequisite: BE 2110 or equivalent.

Senior/Graduate Courses

4510. Office Management/(3).F.
Study of the responsibilities, problems, and duties of the office manager approached from a management viewpoint; study made in managing the modern office from both a traditional and computerized office systems approach; study of administering systems and procedures in office work and expansion of knowledge and techniques used to reduce and control office costs.

4610. Coordination Techniques and Job Analysis for Vocational Business and Marketing Education/(3).SS.
Prospective students are placed in a cooperative office and/or marketing education program. Methods and techniques of coordinating work are emphasized.

4650. Applications in Information Processing for Business Educators/(3).F.
Provides students with a basic understanding of applied automated integrated office systems. The course focuses on microcomputer and software packages that enable a microcomputer to accomplish various business and business education applications and tasks. The impact of computer technology and electronic information systems in business operations on students studying the business curriculum at the

secondary level will be emphasized. Prerequisite: senior or graduate standing and introductory data processing/computer course.

4850. Management of Occupational Education Youth Organizations/(3).S.
A study of how to organize and administer youth organizations in occupational business and marketing education for teachers in order to establish an excellent learning situation.

4851. Organization and Administration of a Marketing Education for Teachers Program/(3).F.
A study of the philosophy, practices, and procedures used in the organization and administration of an occupational distributive education program.

4852. Methods in Marketing Education for Teachers/(3).S;SS.
A study of approved methods of teaching marketing education for teachers. Prerequisite: PSY 3302.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Health Education (HED)

2100. Introduction to Health Education/(3).F.
This course focuses on the discipline of health education, its foundation in theories of behavior change and the scienes. The roles and competencies of health educators in schools, the community, and clinical and worksite settings are described.

3100. Advanced First Aid and CPR/(3).F;S;SS.
Principles and techniques of emergency first aid including CPR with emphasis also placed on related safety consciousness. American Red Cross certification may be earned. (Same as HP 3100.)

3120. Consumer Health Education/(3).S.
An overview of health products and services. Analysis will be made of the health care delivery system and wise decision making in the health marketplace. Included is the study of alternative healing practices, advertising of health products, and financing of health care from the consumer's perspective. The role of the FDA and FTC and other consumer protective agencies will be studied.

3450. School Health Programs/(3).S.
An examination of three components of the school health program: comprehensive health education, school health services and a healthful school environment. This course describes the roles and functions of the health educator and coordinator in planning, implementing and evaluating programs which promote the health and well-being of school-aged children and youth. Coordination of efforts between the school, family and community are emphasized.

3500. Independent Study/(1).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3645. Health Education in the Elementary School/(3).F;S;SS.
An introduction to the content and methods of health education. The course will survey basic wellness issues such as nutrition, fitness, sexuality, drug abuse, and chronic and communicable disease prevention. The theory and practice of health education programs at the elementary level is discussed, including the use of a variety of methods and the development of relevant materials.

3655. Methods and Materials in Health Education/(3).F.
This course examines the theory and practice of planning health education programs for the middle and secondary levels. Development of instructional material and appropriate teaching strategies are emphasized. Visitations and observations of health education classes are required. Prerequisite: HED 3450 or permission of instructor.

3900. Internship/(3).F;S.
Students serve internships in a variety of health related agencies such as health departments, community action agencies, community mental health centers, educational institutions, wellness programs, hospitals and industrial/business settings. Students survey agency functions, complete projects and write a final paper under the supervision of a health educator or health related professional. Prerequisite: HED 2100; and the majority of other Health Education requirements or permission of the instructor. Graded on S/U basis.

Senior/Graduate Courses

4650. Drugs, Alcohol and Tobacco/(3).F;S;SS.
A study of drug use and abuse. All classes of drugs including alcohol and tobacco will be discussed. Emphasis will be placed on the psychological and sociological factors which may lead to drug experimentation and heavy drug use. Emphasis will also be placed on methodology and techniques for the teaching of drug education.

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Department of Human Development and Psychological Counseling (HPC)

Lee Baruth, Chairperson

The Department of Human Development and Psychological Counseling is responsible for organizing and providing instructional programs in counseling and other human development functions for public schools, colleges/universities, and various agencies.

The department offers courses of instruction leading to a Master of Arts degree (48 semester hour programs) with the following options:

1. **The Agency Counseling program** is designed to prepare counselors and other "helping" professionals to work in a wide variety of human service agencies (including mental health centers, social service agencies, employment and rehabilitation centers, business and industry employee assistance programs, etc.). Various specialized course emphases are available.
2. **The Certified School Counseling program** (Counseling and Guidance/School Counseling, K-12) is designed to meet state certification requirements and to prepare counselors for elementary, middle, and secondary schools. (Prerequisite: a North Carolina "A" teaching certificate, its equivalent, or a supervised public school internship.)
3. **The Student Development program** is designed to prepare counselors and other student development (student personnel/student affairs) specialists who wish to work in a post-secondary educational setting (universities, four-year colleges, community colleges, and technical institutes/colleges).
4. **The Marriage and Family Therapy program** is designed to meet the need for advanced preparation of counselors who work with families in a wide variety of work settings.

The Educational Specialist Degree (Ed.S.) in Counselor Education is a degree for persons holding a master's degree or its equivalent in school counseling or student development. Programs are individualized to take into consideration the number and type of courses in the applicant's master's degree program with a total of 66 semester hours of approved courses required in the combination of master's degree plus Ed.S. program. A minimum of 18 semester hours of approved courses are required in the Ed.S. program at Appalachian State University. Concentrations are available in school counseling (public school K-12) and student development (post-secondary institutions).

All master's degree programs in agency counseling, school counseling, and student development (approved emphases are administrative, counseling and developmental) are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA). Graduates are immediately eligible to take the examination of the National Board for Certified Counselors, Inc., to become National Certified counselors. The school Counseling programs are also accredited/approved by the National Council for Accreditation of Teacher Education (NCATE) and the North Carolilna Department of Public Instruction.

All courses are taught from a multicultural perspective which emphasizes the differing experiences, cultures, histories, and perspectives of people from a variety of ethnic, gender, racial, and social class backgrounds.

The department also provides group methods, human relations, and other human development courses at the graduate and undergraduate levels for the College of Education and the University. These courses are valuable for majors in other departments. A course in life and career planning and courses in leadership development are offered for undergraduate students. The department offers a variety of summer institutes to enhance the learning of both graduate students and practitioners seeking continuing education opportunities in human service fields.

A student proposing to major in any of the degree programs or to seek certification through the department must be **fully admitted** as an HPC degree student or in exceptional circumstances receive approval by the HPC department chair **prior to taking any course**. See the *Graduate Bulletin* for a listing of each program.

Courses of instruction in human development and psychological counseling (HPC)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

2200. Life/Career Planning/(2).F;S.
This individually oriented study helps students consider those career choices and related factors contributing to satisfaction and happiness in life. The process of goal setting and self-management by objectives will be studied in order for the student to plan systematically for a career. Offered on a S/U basis only.

2700. Introduction to Leadership Development/(3).F.
Designed to introduce students to the development of leadership skills. Topics/emphases include an assessment of each student's preferred leadership style as well as an introduction to team building, decision-making, time management, program planning, group communication, and goal setting. Students will become actively involved in one or more roles in at least one campus organization.

3390. An Introduction to the Procedures in the Helping Professions/(3).F;S.
Historical, philosophical, and legal aspects of the helping professions. Emphasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed. (Same as PSY 2203).

3400. Resident Assistant Development/(3).F;S.
Designed to enhance the personal and professional growth of resident assistants. Emphasis is given to the residential living/learning environment and related student development theory; leadership development and styles; communication skills/styles; and situational topics relative to the resident assistant position. Open only to approved prospective or current Appalachian resident assistants.

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistant/(1).On Demand.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite; junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

3700. Applied Leadership Development in Student Organizations/(3).F;S.
Designed to study the component parts of organizational leadership while assisting leaders in various student clubs and organizations to develop further

their leadership skills. The course format will combine instruction, discussion, and experiential learning in order to bridge the appropriate theories with the reality of organizational leadership. The course is limited to students in existing club/organization leadership roles.

4300. Advanced Student Leadership Development/(3).F.
Designed for designated student body officers/leaders to develop and practice their leadership capabilities. It combines the theoretical understanding through the classroom setting with the practical concepts through a practicum. Emphases include an understanding of the University community, clear organizational goals, advanced leadership concepts, and related topics/issues. The course is limited to those invited and approved by the instructor.

Senior/Graduate Courses

4570. The Addictive Process/(3).F;SS.
An examination of sociological and psychological contributants to alcohol and drug addition and abuse in our society. The addictive process and its impact on the individual and society are described, as well as treatment and preventive program efforts. Students will also examine their own feelings and attitudes about alcohol and drug use and abuse.

4710. Teaching Sex Education Within a Family Context/(3).On Demand.
This course is designed to help health educators learn and develop strategies for teaching family living and sexuality to different age groups such as elementary, middle grades, secondary and adults. Topics to be included are reproductive anatomy, physiology, STD and AIDS, varying cultural differences, and gaining community support. Each student will be responsible for developing appropriate curricular materials for the age group he or she will be teaching.

4790. Group Methods and Processes/(3).F;S;SS
A study of group dynamics, experimentation in groups, leadership roles, and applicability to other settings.

4800. Basic Dream Interpretation/(3).F;S.
A review of C.G. Jung's life and the development of analytical psychology. This review includes the beginning and expansion of his analytical approach to dream analysis. Special attention will be given to the structure of dreams, dream images and how dreams relate to the life of the dreamer. Students will begin to explore their dreams via the analytical method.

4840. Human Relations and Interaction/(3).F;S;SS.
Examines the key elements in effective interpersonal communication. Students will be exposed to one or more human relations models that are designed to improve their communication skills, such as Carkhuff/Gazda scales, Parent Effectiveness Training, Teacher Effectiveness Training, Transactional Analysis, values clarification, psychodramatic techniques, etc. Emphasis will be given to applying constructive methods of human relations in a variety of settings including business, schools, and social service agencies.

4850. Advanced Dream Interpretation/(3).S.
An advanced structural study of individual and collective dreams based on the works of C.G. Jung. Special attention will be given to the concepts of ego, persona, shadow, animus/anima, self components, psychological types, complexes, symbols, archetypes, fairy tales, and alchemy. Prerequisite: HPC 4800 or permission of instructor.

4900. Internship in Public Schools/(1-9). On Demand.
Designed for school counselor graduate students who do not possess an "A" teaching certificate and who must have an extended internship in a public school setting prior to obtaining a "G" certificate. Each internship is arranged and coordinated on an individual basis consistent with state policies. This course will be limited to students accepted into the school counselor program and the course credit will not count toward the graduate degree. Graded on the S/U basis only.

For graduate courses (5000 or above) refer to the Graduate Bulletin.

Department of Language, Reading, and Exceptionalities (LRE)

Mike Marlowe, Chairperson

The Department of Language, Reading, and Exceptionalities includes professionals in reading, special education, and communication disorders. This enables the department to provide innovative programs focusing, in a transdisciplinary fashion, on all facets of language, reading and specific areas of exceptionality. All students pursuing programs in the Department of Language, Reading, and Exceptionalities must satisfy the College of Education's requirements pertaining to admission, advisement, proficiencies, and certification.

Undergraduate programs offered include:
- communication disorders (B.S.)
- reading (B.S.)
- special education/mild-moderate handicapping conditions (B.S.)
- habilitative science (B.S.)

For information on any of the department's graduate programs, consult the current *Graduate Bulletin* or contact the department chairperson.

B.S. in communication disorders

The Department of Language, Reading, and Exceptionalities offers a preprofessional program in the study of human communication and associated disorders. Licensure and certification by the State of North Carolina or the American Speech-Language-Hearing Association require successful completion of a master's degree. Students accepted into the program must arrange a plan of study with a departmental advisor.

Requirements:

General education ..... 42 s.h.

Professional education courses:

COM	1100	Introduction to Speech Communication	2 s.h.
PSY	3301	Developmental Psychology	3 s.h.
PSY	3302	Educational Psychology	3 s.h.
CI/SPE	2800	Introduction to Teaching	4 s.h.
CI	3750	Audiovisual Instruction	2 s.h.
FDN	3100	Microcomputers for Classroom Teachers K-12	2 s.h.
FDN	3800	Foundations of American Education	3 s.h.
RE	3900	Principles of Reading Instruction for the Classroom Teacher	3 s.h.
		TOTAL	22 s.h.

Required courses in communication disorders and related areas:

CD	2259	Communication Disorders	3 s.h.
CD	2261	Phonetics	3 s.h.

CD	2262	Structural Analysis of Language	3 s.h.
CD	2265	Hearing Science: Anatomic and Physiologic Bases	3 s.h.
CD	2266	Language Science: Anatomic and Physiologic Bases	3 s.h.
CD	2364	Audiology	3 s.h.
CD	3350	Speech Science: Anatomic and Physiologic Bases	3 s.h.
CD	3363	The Clinical Process	3 s.h.
CD	3366	Communication Development	3 s.h.
CD	4563	Disorders of Articulation and Phonology	5 s.h.
CD	4567	The Diagnostic Process	3 s.h.
CD	4568	Language and Culture	3 s.h.
PSY	4700	Applied Behavior Management	3 s.h.
FDN	4600	Educational Statistics	2 s.h.
CD	4564	Clinical Practicum I	3 s.h.
		TOTAL	46 s.h.

Electives . . . . . 12 s.h.

(Selected with approval of major advisor in communication disorders or related areas such as psychology, special education, early childhood education, reading education)

GRAND TOTAL 122 s.h.

Initial certification in the North Carolina schools requires a G (graduate) level certificate.

The typical sequence of courses for a major in communication disorders is:

	Fall Semester	Spring Semester
Second year:	CD 2259	CD 2262
	CD 2265	CD 2266
	CD 2261	CD 2364
Third year:	CD 3350	CD 3363
	CD 3366	CD 4563
	CD 4567	PSY 4700
Fourth year:	FDN 4600	
	CD 4564	

Students interested in state or national certification (American Speech Language and Hearing Association Certificate of Clinical Competence) should see the *Graduate Bulletin*, or contact the departmental chair.

Minor in communication disorders

A minor in communication disorders consists of 15 semester hours, including CD 2259 and 3366 plus nine additional hours to be selected in consultation with the coordinator of the communication disorders degree.

Reading education

The Department of Language, Reading, and Exceptionalities offers an undergraduate degree leading to "A" certification (K-12) in reading education when attached to initial certification in elementary, middle, and/or secondary education. Prospective students should make an appointment with the reading coordinator to plan an approved program of study for certification.

An undergraduate student majoring in elementary education, early childhood education (K-6) who wishes to add reading education to an "A" certificate must complete the following courses: FDN 4560, RE 4591, 4620, 4710, 4711, 4720, and RE 4650 or FDN 4200.

For teachers with a bachelor's degree and North Carolina "A" certification in elementary or secondary education, the department offers a program of study leading to reading certification (K-12) including: RE 4591, 4620, 4710, 4720, 5111 or 5710, and RE 4650.

Special education

The Department of Language, Reading, and Exceptionalities offers the Bachelor of Science degree in special education. Students enrolling in this degree are required to complete a second major in a basic discipline. Completion of the degree leads to initial certification in mental retardation, learning disabilities, and emotional disturbance. The undergraduate major in special education includes the following courses: SPE 2800, 3370, 3374, 4570, 4571, 4576, 4601, 4705, 4901, 4902; RE 3140, 3900, 4710; CI 3750, 4030, 4900; and FDN 3100, 3800.

Early childhood special education concentration: This concentration prepares teachers to serve young handicapped children in the three to five age range. Direct service skills to children and their families are emphasized. Completion of the concentration leads to initial certification in early childhood special education. The concentration includes the following courses: SPE 3375, 3377, 3378, 3379, and 4905.

Habilitative science

A major in habilitative science consists of an individualized program of study that meets the student's particular career objectives in the area of special education. Any student, in consultation with an advisor and with the permission of the chairperson, may elect to adopt the major with a minimum of 36 semester hours plus the departmental core. Certification is not offered with this major.

Special education, general minor

A student may earn an undergraduate minor, which generally consists of a minimum of 15 semester hours of credit from courses offered by the special education degree. Each minor is individually designed by the student and the special education advisor. A minor will be contracted for prior to the last two semesters of residence at Appalachian. Approval must be granted by the student's "home" college prior to contracting for a minor in special education.

Courses of instruction in communication disorders, reading, and special education

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

Communication Disorders (CD)

2259. Communication Disorders/(3).F;S.
An introduction to the disorders of human communication in children and adults. (Meets ASHA B-2).

2261. Phonetics/(3).S.
The phonetic/phonemic systems of English concentrating on I.P.A. transcription skills. (Meets ASHA B-1).

2262. Structural Analysis of Language/(3).S.
A study of language content, form, and use with special emphasis on the acquisition of descriptive taxonomies for the classification of spoken language samples. (Meets ASHA B-1).

2265. Hearing Science: Anatomic and Physiologic Bases/(3).F.
A study of concepts and principles relevant to the normal hearing process: acoustics, anatomy and physiology, psychophysical methods, and subjective correlates of the auditory system. (Meets ASHA B-1).

2266. Language Science: Anatomic and Physiologic Bases/(3).S.
Basic anatomy and physiology of the central nervous system with special emphasis on neural systems involved in normal and disordered language comprehension and production and measurement of underlying cognitive processes associated with language use. (Meets ASHA B-1). Prerequisite: CD 2265 or permission of instructor.

2364. Audiology/(3).S.
The science of hearing and the etiologies of hearing impairment. (Meets ASHA B-3). Prerequisites: CD 2259 and 2265.

2500. Independent Study/(1-4).F;S.

3350. Speech Science: Anatomic and Physiologic Bases/(3).F.
The anatomic, physiologic, acoustic, and perceptual characteristics of speech production with special emphasis on methods for the laboratory study of speech. (Meets ASHA B-1). Prerequisites: CD 2265 and 2266.

3363. The Clinical Process/(3).S.
The ethics, standards, and therapy methods required in any clinical setting, including establishing instructional objectives, developing lesson plans, record keeping, developing dismissal criteria, making referrals, and counseling clients and their families. In this course, students will be expected to serve as a participant observer with one client in the Appalachian State University Comprehensive Clinic. (Meets ASHA B-8). Prerequisites: CD 2259, and concurrently with CD 4563.

3366. Communication Development/(3).F.
Verbal and nonverbal communication development of the child. (Meets ASHA B-1). Prerequisites: CD 2262 and 2266.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for total credit of three semester hours.

3530-3549. Selected Topics/(1-4). On Demand.

Senior/Graduate Courses

4563. Disorders of Articulation and Phonology/(5).S.
Etiology, evaluation, and management of articulation and phonological disorders. (Meets ASHA B-2). Prerequisites: CD 2259, 2261, 3350 and concurrently with CD 3363.

4564. Clinical Practicum I/(3).F;S;SS.
Supervised entry level clinical practicum in screening for speech, language, and hearing disorders and therapy for disorders of articulation, phonology, and childhood language. Students will be expected to accumulate a minimum of 25 clinical clock hours of direct, clinical experience. May be repeated with the approval of the coordinators of the communication disorders program and the Comprehensive Clinic. Prerequisites: CD 2364, 3363, 4563, 4567, and 25

clinical clock hours of supervised observation. (Meets ASHA B-8).

4565. Public School Methods in Speech Pathology and Audiology/(3).S.
Methods for providing speech, language, and hearing services to public school children. (Meets ASHA B-8). Prerequisites: CD 2259, 3363, and 3366.

4567. The Diagnostic Process/(3).F.
An introduction to the diagnostic process with special emphasis on understanding and demonstrating the skills necessary to conduct a clinical interview; administer an oral-facial examination; administer basic screening and diagnostic procedures in language, articulation, voice, and fluency; write a diagnostic report; and, provide appropriate counseling for clients, parents, and spouses.

4568. Language and Culture/(3).F.
An overview of the complex relations between language and society as conceived by selected anthropologists, sociolinguists and psychologists. Special emphasis will be placed on the use of language in various work settings, multilingualism, language socialization, and cross-cultural communication. (Meets ASHA B-1). Prerequisites: CD 2262 and 3366 or permission of the instructor.

4602. Communication Problems of the Aged/(3).F.
The dynamics of normal communicative processes in the geriatric population and the psychological changes that occur as human beings age.

4903. Internship/(3-12).F;S;SS.
Supervised therapy with emphasis on individualized therapy techniques. (Meets ASHA B-8). Prerequisite: Approval of department chairperson. Graded on S/U basis.

Reading (RE)

0100. Reading and Study Skills/(3).F;S;SS.
Application of reading and study skills to college level coursework. Course counts as three hours credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (see "Institutional Credit").

2000. Advanced College Reading and Study Skills/(1).F;S;SS.
Enriches the student's reading and study techniques, including flexibility and improvement of reading rate, and the establishment of lifelong reading habits.

2500. Independent Study/(1-4).F;S.

3070. Media for Young People/(3).S;SS.
Survey of liturature, films and television for adolescents; criteria for selection and use; methods of encouraging critical use of media by young people.

3140. Language and Literature in the Elementary School/(4).F;S.
A study of communication skills in the elementary school curriculum with emphasis on language arts and children's literature.

3150. Language Arts in the Middle Grades/(2).F;S.
A study of communication skills: literacy, speaking, reading, composition, handwriting, and spelling; a comparison of current teaching methods and materials; emphasis on the language arts as the core of middle grades curriculum.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3900. Principles of Reading Instruction for the Classroom Teacher/(3).F;S;SS.
This course is a major professional course which prepares teachers to teach reading in grades K-12. Knowledge objectives of the course focus on the developmental nature of language and reading ability, along with some major issues and instructional materials and practices associated with reading instruction. Performance objectives are designed to develop skills in (1) diagnosing individual differences, (2) setting goals and objectives for reading instruction, (3) evaluating reading behavior, (4) developing instructional strategies, and (5) utilizing resources for reading instruction. (This course may be used to meet certification requirements for teachers in grades K-6, teachers being certified in special education, library and media studies, and speech pathology and audiology.)

Senior/Graduate Courses

4591. Advanced Study in the Teaching of Reading/(3).F;SS.
The intent of this course is to help reading education majors expand their knowledge of the parameters of reading instruction and the total school reading program. Emphasis is placed on increased knowledge of the reading process, instruc-

tional methods and techniques, scope and sequence of reading skills, instructional materials, instruments for measuring reading ability, and sources of information on reading.

4620. Reading Instruction in the Middle/Junior and Senior High School/(3).F;S;SS.
In addition to covering the content and skills presented in RE 4630, this course covers the following; (1) the developmental reading program, (2) organizing and administering the high school reading program, (3) reading interests and tastes, (4) providing reading instruction for special groups, (5) meeting needs of the individual reader.

4630. Reading in the Content Areas/(2).F;S;SS.
This course prepares content area teachers to utilize reading as an instructional process in their classrooms. In addition, reading is used to gain perspective on broader learning processes. Course topics include: (1) Classroom assessment procedures, including textbook evaluation and selection, and classroom diagnostic techniques. (2) Accommodating individual differences. (3) General lesson and unit planning strategies. (4) Focused instructional strategies, which include specific teaching activities for reading and learning. (This course may be used to meet certification requirements for special subject teachers in grades 7-12 who teach subjects such as English, social studies, math, science, biology, health and physical education, sociology, geography, drivers education, business, music, art, foreign language, and so on.)

4640. Workshop in Teaching Reading/(2).SS.

4650. Linguistics and Reading/(3).F;SS.
Relates these areas of linguistics to the process of reading: phonetics, syntax, semantics, rhetoric and dialect.

4710. Informal Classroom Diagnosis and Corrective Reading Communication/(3).F;S;SS.
Prepares students to administer and interpret commonly used informal reading tests and other instruments in order to plan effective classroom instruction for remedial, developmental and gifted pupils. Prerequisites: RE 3900, 4591, or 4620.

4711. Practicum in Clinical Reading/(1-3). F;S;SS.
Practice in the application of skills used in providing remedial reading instruction. Graded on S/U basis.

4720. Diagnostic and Remedial Reading I/ (3).F;S;SS.
The course deals with commonly used reading tests and how to locate causes of reading difficulties and to prescribe corrective procedures for the severely disabled reader. Prerequisites: RE 3900, 4710, 4620 or 4591.

4890. Reading and Communications/(2). On Demand.
Centers on reading as it relates to mass media and communications.

4904. Field Experience/(3).F.
Students register only by permission of advisor in reading.

Special Education (SPE)

2500. Independent Study/(1-4).F;S.

2800. Introduction to Teaching/(4).F;S.
Basic conceptual introduction to the world of public education and the teaching of regular and special needs students. Students are also required to perform a minimum of 40 hours of observations. (Same as CI 2800.)

3370. Introduction to Mental Retardation/ (2).F;S;SS.
A study of individuals who have problems of retardation with regard to characteristics, behavior, and general nature and needs in the home, community, and learning environment.

3374. Diagnostic Prescriptive Teaching: Mental Retardation, Learning Disabilities, and Emotional Disturbance/(3).F;S.
The basic principles of evaluation, curriculum development, and instruction for mentally retarded, learning disabled, and emotionally disturbed children are addressed. This course must be taken concurrently with SPE 4901.

3375. Working with Families in Early Childhood Special Education/(2).F.
Course covers philosophies and techniques for working with families of preschool handicapped children, including home visits, referrals, family crises, family dynamics, communication and parent training. Students participate in family-child-professional observations and interactions.

3377. Interdisciplinary Assessment in Early Childhood Special Education/(3).F.
This course examines the philosophy and model of interdisciplinary planning for preschool handicapped children. Students demonstrate skills in assessment, observation, structuring assessment team meetings, and planning in a field experience. Prerequisite: SPE 3379. Taken concurrently with SPE 3375, 3378 and CD 4903.

3378. Intervention Strategies and Curriculum Development in Early Childhood Special Education/(3).F.
This course addresses methods and curriculum appropriate for young handicapped children. Methods and curriculum are applied in a field experience. Prerequisite: SPE 3379. Taken concurrently with SPE 3375, 3377, and CD 4903.

3379. Critical Issues in Early Childhood Special Education/(3).S.
This course covers the historical, legislative, and theoretical underpinnings of the field of early childhood special education. Competency issues and trends are discussed.

3500. Independent Study/(1-4).F;S;SS.

3530-3549. Selected Topics/(1-4). On Demand.

4100. Educational Assessment and Curriculum Development for the Exceptional Infant and Young Child/(3). On Demand.
Evaluation, methods and materials used with the very young and preschool child with mild to moderate conditions.

Senior/Graduate Courses

4551. Program Development in Adapted Physical Education/(3).F;SS. On Demand.
This course is concerned with the development of appropriate physical education programs for handicapped children and adults. The course will include curriculum development, inservice training, IEP Development, legislative concerns, and evaluative techniques.

4552. Methods and Curriculum in Adapted Physical Education/(3).S;SS. On Demand.
This course is designed to address state-of-the-art techniques and method used in the implementation of appropriate physical education programs for handicaped children and adults. Students will be required to apply classroom knowledge to a practicum setting with children and adults.

4570. Consultation and Advocacy for Exceptional Children: Mental Retardation, Learning Disabilities, and Emotional Disturbance/(3).F;S.
The role of the teacher as an advocate and change agent for mentally retarded, learning disabled, and emotionally disturbed children in the home, school, and community.

4571. Introduction to Emotional Disturbance/(2).F;S;SS.
An introductory course in the education of the emotionally handicapped child. Emphasis will be placed upon the psychological, sociological, and educational implications in the education of emotionally handicapped children.

4576. Introduction to Learning Disabilities/(2).F;S;SS.
The identification and education of youth with learning disabilities, including programs, teaching strategies, and theories.

4592. Medical Aspects of Disability/(3).F.
Medical aspects of major physical disabilities with implications for rehabilitation. Opportunities will be provided for first-hand observation and experience in an institutionsl setting. Prerequisite: PSY 4650. (Same as PSY 4653.)

4601. Classroom Management and Intervention Strategies: Mental Retardation, Learning Disabilities, and Emotional Disturbance/(2).F;S.
A study of classroom management techniques and intervention strategies with mentally retarded, learning disabled, and emotionally disturbed children. Must be taken concurrently with SPE 4570, 4705, and 4902 by special education majors.

4700. Introduction to the Teaching-Family Model/(3).On Demand.
An introduction to the philosophy and implementation of the teaching-family model treatment approach. Emphasis will be placed on meeting the needs and remediating problems of the emotionally disturbed and delinquent youth.

4705. Methods and Curriculum: Mental Retardation, Learning Disabilities, and Emotional Disturbance/(3).F;S.
This course addresses state-of-the-art techniques and methods used in the implementation of curriculum programs for mentally retarded, learning disabled, and emotionally disturbed children.

4900. Practicum in Special Education/(1-9). F;S;SS.
Supervised practicum experience in educational settings; basically for habilitative science majors. Prerequisite: approval of chairperson.

4901. Practicum in Educational Assessment and Curriculum Development: Mental Retardation, Learning Disabilities, and Emotional Disturbance/(1).F;S.
Field experiences designed to give practice in evaluation, methods, and materials with mentally retarded, learning disabled, and emotionally disturbed children. This course is taken concurrently with SPE 3374. Graded on S/U basis only.

4902. Practicum in Handicapping Conditions/(2).F;S.
Field practice in school settings of techniques used in the education of mentally retarded, learning disabled, and emotionally disturbed children. Graded on S/U basis only. This course must be taken concurrently with SPE 4570, 4601, and 4705.

4905. Practicum in Early Childhood Special Education/(3).F.
This half day field experience is taken concurrently with SPE 3375, 3377 and 3378. Students will apply skills in assessment, curriculum planning, teaching, and working with families.

For graduate courses (5000 or above) refer to the Graduate Bulletin.

Department of Leadership and Higher Education (LHE)

James McDowelle, Acting Chairperson

The Department of Leadership and Higher Education is responsible for organizing and providing graduate instruction in public school administration, higher education administration and teaching, developmental education, community and adult education. The undergraduate Bachelor of Technology degrees in industrial technology and business technology are also administered by the department.

The department offers courses of instruction leading to a Master of Arts degree in the following areas:

1. Educational administration, community education or educational administration, school administration—prepares persons for a school principalship at elementary or secondary level. Such degrees lead to administration certification in North Carolina. Students majoring in community education are prepared for public school administration. (Prerequisite for administration certification: Class "A" teaching certificate and at least three years of successful teaching experience.) Students seeking only certification in educational administration should contact the chairperson of the Department of Leadership and Higher Education for a list of the required prerequisites and courses.
2. Higher education, administration; higher education, adult education; higher education, developmental studies; or higher education, teaching—(designed to prepare students to teach in community, junior and technical colleges); prepares students who wish to work in post-secondary educational settings.
3. Community education—an interdisciplinary Master of Arts degree based upon competencies identified by educational and recreational leaders and which are needed to work in the field of community education. The degree is served by an interdepartmental faculty committee which assists students in developing study based upon the student's current levels of competence in all required areas.

The Educational Specialist degree (Ed.S.) in the Department of Leadership and Higher Education is a 30 semester hour degree program offered in the following areas:

1. Educational administration—provides advanced graduate work for public school administration. This degree leads to sixth year certification.
2. Higher education administration—provides advanced graduate work in the area of

post-secondary education (administration, teaching, developmental studies, and adult education).

Students pursuing or holding graduate degrees in other departments, and also seeking administration certification, must take the necessary courses and internship prescribed by the Department of Leadership and Higher Education.

A student working toward a degree and/or certification in the Department of Leadership and Higher Education must develop his/her program of study in consultation with an approved advisor. Candidacy forms must be submitted to the graduate office before the student has completed twelve hours of course work. Degree students taking courses without being officially assigned an advisor and receiving the advisor's approval, do so at the risk of not having the courses approved as part of the degree program.

Students who want to minor in the Department of Leadership and Higher Education should contact the chairperson of the department.

A minor consists of 9-12 semester hours of designated courses from the program track concentration selected (community education; higher education, developmental studies; higher education, adult education; higher education, administration; higher education, teaching; higher education, community, junior and technical college).

Courses of instruction in leadership and higher education (LHE)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

Senior/Graduate Courses
4750. Planning and Conducting Adult Learning Experiences/(3).S.
An analysis of the role of the adult educator in planning and conducting experiences designed to facilitate particular learning outcomes. Special attention is given to the creation of a learning environment within which the adult educator works with individuals and groups.

4900. Internship/(2-6).F;S.
A teaching, training, or administrative internship in an appropriate educational setting under the direct supervision of experienced instructors and administrators. Students teach courses in vocational, technical, or human service programs and/or perform administrative, research, and training functions in area of adult and continuing education. Grade is on an S/U basis only.

4960. Government and Corporate Relations/(3).S.
This course will prepare students to: access appropriate governmental, foundation, and corporation personnel; develop and utilize networks between a home organization and governmental contacts on a local, state, regional, and national level.

4970. Seminar on Community and Technical Colleges/(3).F;S.
Study and analysis of teaching, administrative, planning and leadership problems and issues related to community colleges, technical colleges, and technical institutes. Research of recent trends of two year col-

leges are studied. This course is also designed to complement the internship by assisting the students with course planning and development.

4980. Introduction to Adult and Community Education/(3).F.
The principal goal of this course is to give students an appreciation of the evolution of the concepts, philosophies, and programs of adult and community education. The course is intended to serve as an introduction of the numerous populations, agencies, and delivery systems involved in the process of providing lifelong learning experiences.

For graduate courses (5000 or above) refer to the Graduate Bulletin.

Department of Library Science and Educational Foundations (LIB/FDN)

Thomas Jamison, Chairperson

The Department of Library Science and Educational Foundations serves the education community and the public in two ways. It provides foundational courses which have relevance to the professional studies component in teacher education. The courses in foundations of education (FDN) provide students with the opportunity to learn about the social and cultural factors that impact on education and schooling. The department also provides courses that develop the skills and knowledge needed to understand how research in the field of education is designed, implemented, and evaluated. The foundations of education faculty is available to assist fellow professionals and the public in meeting those needs which involve educational research activity, assessment procedures, and in understanding the various cultural factors that seem to impinge on the school and its mission in society. The department also offers courses in the instructional uses of microcomputers. A Master's degree in computer education is housed in the department. It is described in the *Graduate Bulletin*. Completion of the M.A. degree in computer education also leads to 077 certification in computer education.

The Department of Library Science and Educational Foundations offers the Master's Degree (M.L.S.) in library science (for school-media coordinators) and the Ed.S. in educational media (for librarians). Persons interested in either of these degrees are requested to consult the *Graduate Bulletin* for further information. Completion of these degrees will satisfy state requirements for certification (M.L.S., 076 Media Coordinator; Ed.S., 078 Media Supervisor).

For courses of instruction in library science (LIB) refer to the *Graduate Bulletin*.

Courses of instruction in foundations of education (FDN)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviation used in the following list of courses, see the index for abbreviations.)

3100. Classroom Use of Microcomputers in Grades K-12/(2).F;S;SS.
An introduction to the applications of microcomputer technology in instructional settings. Topics included are popular computer systems used in schools; word processing; data storage and retrieval; software evaluation, selection and use; and computer languages designed for classroom instruction.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on an S/U basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).On Demand.

3800. Foundations of American Education/(3).F;S;SS.
An examination of historical, philosophical, sociological, political and economic forces affecting education and schooling in the United States. May serve as an elective for non-teacher education majors.

4200. Psychology of Reading for the Classroom Teacher/(3).F.
Provides classroom teachers with a comprehensive overview of modern learning theories as they apply to the psychology of reading behavior and the psychology of reading instruction. The course is organized in such a way that students are guided into critical evaluation and analysis of reading practices in relation to prevalent theories of learning. Students are encouraged to formulate ways in which learning theories can be translated into reading behavior and used to develop teaching strategies for teaching instruction.

Senior/Graduate Courses

4560. Measurement and Assessment/(2).F;S;SS.
Basic course for elementary, secondary, and junior college teachers which stresses the construction and use of teacher-made tests.

4600. Educational Statistics/(2).F.
A study of the basic statistical procedures in education including measures of reliability, variability, correlation, central tendency, and problems of sampling.

4800. Education of the Culturally Diverse/(3).F;SS.
A general survey of situations encountered by the teacher in a culturally diverse society. As emphasis on the development of the empathetic teacher and the creation of teacher strategies and materials. Open to graduates and seniors.

4810. Education in Appalachian America/(3).S;SS.
A course designed to assist the teacher of mountain children in understanding the pupil and school in the Appalachian culture. Various Appalachian cultural descriptors and their effect on schooling will be discussed with attention to the creation of teaching strategies and materials. Open to graduates and seniors.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

The College of Fine and Applied Arts

Ming Land, Dean
Pat Reighard, Assistant Dean

In cooperation with other colleges of the University, the College of Fine and Applied Arts strives:

1. To provide for varied interests, desires, needs, and abilities of students.
2. To provide a liberal education for all Appalachian students.
3. To expand cultural horizons and develop appreciation of ethical and aesthetic values.
4. To prepare students for certain professions.
5. To prepare students for entrance into certain professional schools.
6. To provide sound foundations for students capable and desirous of advanced study.
7. To prepare students for graduate study and research.

Departments

The College of Fine and Applied Arts consists of the following seven departments:

- Art
- Communication
- Health, Leisure and Exercise Science
- Home Economics
- Military Science
- Technology
- Theatre and Dance

Degrees offered

The College of Fine and Applied Arts offers the Bachelor of Arts, Bachelor of Fine Arts, and the Bachelor of Science degrees. In cooperation with the College of Education it offers the Bachelor of Science degree with teacher certification in art, health and physical education, home economics education, industrial education, and speech.

To be admitted to the College of Fine and Applied Arts as a candidate for a baccalaureate degree, a student must have:

1. Completed at least 28 semester hours.
2. A grade-point average of at least 2.00.
3. Completed ENG 1000 and 1100.
4. Been accepted by a department in the college as a major in that department.
5. Students moving from the General College to the degree granting department must see the department chairperson for the purpose of being assigned a faculty advisor.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the chairperson of the Department of Curriculum and Instruction.

Advisement

Advisement for the College of Fine and Applied Arts is available through each department within the College. Each student is urged to visit the dean's office for a graduation audit one semester prior to graduation.

Bachelor of Arts degree

In order for a student to earn the Bachelor of Arts degree in the College of Fine and Applied Arts, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of six semester hours of a second year of foreign language or higher. The Department of Foreign Languages and Literatures places students at the level at which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of 38 to 40 semester hours from one of the departments listed below:

   Art Communication

   Students in COM must have at least a 2.00 grade-point average in all COM courses required for the major. Students in ART must have a 2.00 grade-point in each ART course required in the major. Students in theatre and dance must have a 2.00 grade-point in each theatre and dance course required in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian.

   Specific requirements for each departmental major preface the list of courses offered by the department.
5. Completion of a minor consisting of 12 to 20 semester hours from a department other than the departments of Leadership and Higher Education, Curriculum and Instruction, and Human Development and Psychological Counseling. Transfer students must complete at least four semester hours in their minor at Appalachian. The choice of a minor should be made under the guidance of the student's advisor.

   Specific requirements for each departmental minor preface the list of courses offered by the department.
6. Completion of electives to total 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning the settlement of all expense accounts.
9. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Students pursuing the B.A. degree are advised to refer to the section entitled "Credit limitations" which apply to that particular degree.

A candidate for the Bachelor of Arts degree may qualify for a teacher's certificate by admission to professional education courses through the office of laboratory experiences in the College of Education and by completing all academic and professional educational requirements for certification.

Bachelor Fine Arts degree

1. Completion of at least 122 semester hours with a cumulative grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.

3. Completion of a major as described by the Department of Art.

Students in Art must have a minimum 2.00 grade-point in each ART course required.

Specific requirements for this degree preface the list of courses offered by the department.

Bachelor of Science degree (without teacher certification)

In order for a student to earn the Bachelor of Science degree in the College of Fine and Applied Arts, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Completion of a major as described by the various departments offering Bachelor of Science programs without teacher certification:

   Art
   Communication
   Health, Leisure and Exercise Science
   Home Economics
   Technology

   In addition, a student may earn the Bachelor of Science degree in communications media. Required is completion of a specified core, plus a concentration selected from one of the following areas:

   Advertising, broadcasting, journalism, and public relations (communication)
   Printing production management (technology)

   The core in the communications degree is required in lieu of a minor in the advertising and journalism concentrations. The printing production management, public relations, and broadcasting concentrations require a minor.

   In conjunction with the College of Arts and Sciences, the College of Fine and Applied Arts offers the Bachelor of Science degree in child development. Participating departments in the child development degree are Psychology without teacher certification (Arts and Sciences), and Home Economics without teacher certification (Fine and Applied Arts). The degree is housed in the Department of Home Economics. For information regarding degree requirements for these two, refer to the respective department.

   Students must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

   Specific requirements for each department major preface the list of courses offered by the department.
4. Completion of a minor consisting of 12 to 20 semester hours (unless otherwise designated) and from a department other than the departments of Leadership and Higher Education, Curriculum and Instruction, and Human Development and

Psychological Counseling. (Transfer students must complete at least four semester hours in their minor at Appalachian.) The choice of a minor should be made under the guidance of the student's advisor.

Specific requirements for each departmental minor preface the list of courses offered by the department.

5. Completion of electives to total 122 semester hours.
6. Completion of residence requirements.
7. Compliance with regulations concerning the settlement of all expense accounts.
8. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Bachelor of Science degree (with teacher certification)

For the requirements for the Bachelor of Science degree with teacher certification, refer to that section in the index.

Opportunities are available for students to become involved in internships associated with the academic disciplines represented by all the departments in the College of Fine and Applied Arts. These internships provide students with on-the-job experiences in many areas of endeavor and allow them to earn academic credit which is applicable toward their degree. Students interested in pursuing this valuable educational opportunity should contact either their departmental advisor or the departmental office. Consult the catalog statement which describes the student internship program.

Dual-degree engineering program with Auburn University

A dual-degree program offered in cooperation with Auburn University is designed to give students the opportunity to attend Appalachian State University for three years and Auburn University for two years. This three-two program results in two college degrees.

Study during the first three years would include course work in mathematics and the sciences and also courses chosen to meet Appalachian's general education requirements. During the last two years, the student is involved in course work in one of the many engineering disciplines at Auburn University.

Upon completion of this three-two program, the graduate is awarded a baccalaureate degree from Appalachian State University and an engineering bachelor's degree from Auburn University. The dual-degree program also contains a provision enabling highly qualified students to obtain a Master's degree in engineering after obtaining the liberal arts undergraduate degree.

Dual-degree candidates from Appalachian State University are eligible to seek any of the following degrees from Auburn University:

Bachelor of aerospace engineering
Bachelor of aviation management
Bachelor of chemical engineering

Bachelor of civil engineering
Bachelor of electrical engineering
Bachelor of industrial engineering
Bachelor of materials engineering
Bachelor of mechanical engineering
Bachelor of textile chemistry
Bachelor of textile engineering
Bachelor of textile management

For additional information, contact Dr. Edwin Arnold, Assistant Dean, College of Arts and Sciences.

Department of Art (ART)

Marianne Stevens Suggs, Chairperson

The purposes of the Department of Art are (1) to provide instruction and to promote co-curricular activities which prepare students for professional careers in the visual arts such as teaching or graphic design, and in arts related fields such as arts management or gallery work; (2) to provide instruction and training in the intellectual and technical skills necessary for studio art production; (3) to promote informed understanding of the value of art and design in contemporary and in historical cultures; (4) to cultivate students abilities to think creatively and critically when both producing and responding to visual art; (5) to provide instruction and co-curricular activities in the visual arts as a component of the humanities program; and (6) to contribute creative activities and scholarship to the University community and to society in general.

A Bachelor of Science degree in art education (K-12) (with teacher certification) consists of 60 semester hours which includes ART 1000, 1001, 1002, 1003, 2007, 2008 or 2009, 2025, 2030, 2100, 2101 or 2201, 2103, 3030, 3421, 3422, 4421, and 4422. In addition, 6 s.h. must be taken in one area of specialization from the following: ART 2026 and 4626, or 3025 and 4025, or 3100 and 4100; and 6 s.h. must be taken in one area of specialization from the following: ART 3007 and 4607, or 3008 and 4608, or 3009 and 4609, or 3101 and 4601. In addition, the art major must satisfy specified professional education requirements. For the requirements leading to K-12 special certification, see the Department of Curriculum and Instruction.

A Bachelor of Science in art marketing and production degree consists of: ART 1000, 1001, 1002, 1003, 2103, 4013, 4900 (8 s.h. minimum), and COM 1100 (Introduction to Speech Communication). In addition, 6 s.h. from ART 2030, 3030, 4014, 4030 and 4630 and 12 s.h. from ART 2007, 2008, 2009, 2025, 2100 and 2101 or 2201 are required. An additional 9 s.h. in art above the 2000 level are also required. A minor in general business or marketing is recommended.

A major in art leading to the Bachelor of Arts degree consists of 40 semester hours, including ART 1000, 1001, 1002, 1003, and 2103; 6 s.h. from ART 2030, 3030, and 4630; and 9 s.h. from one of the following areas of specialization: ART 2007, 3007, and 4607;

2008, 3008, and 4608; 2009, 3009, and 4609; 2025, 3025, 4025, and 4625; 2100, 3100, 4100, and 4600; or 2101, 2201, 3101, and 4601. An additional 10 s.h. are also required to be selected from the above mentioned options and/or from ART 2500 (1-4 s.h.), 2026, 3013, 3500 (1-4 s.h.), 3520, and 4626. Six hours are required of a second year foreign language as well as a 12-18 s.h. minor.

The Bachelor of Fine Arts degree in studio art includes areas of emphasis in alloys, clay, fibers, painting, printmaking and sculpture and consists of 66 hours in studio beginning with a foundations/studio core of ART 1000, 1001, 1002, 1003, 2103 and 6 hours from ART 2008, 2025, 2100 **and** 6 hours from ART 2007, 2009, 2101 or 2201 (for a total of 27 hours). The area of emphasis consists of 15 hours above the 2000 level beginning studio in one area. The secondary concentration consists of 9 hours above the 2000 level studio in a second area and an additional 6 hours above the 2000 level studio in a third area. Studio electives of 9 hours may be selected from any Art studio and may also include related areas from other departments with the written approval of the advisor. Twelve hours of art history including ART 2030 and 3030 are also required.

The Bachelor of Fine Arts degree in graphic design consists of 66 hours in studio and related areas beginning with a foundations/studio core of ART 1000, 1001, 1002, 1003, 1102, 2103 and 6 hours from ART 2008, 2025, 2100 **and** 6 hours from ART 2007, 2009, 2101 or 2201 (for a total of 30 hours). The studio major in graphic design consists of intermediate studios in ART 2026, 2102, 3102; advanced studios in ART 3025, 3202, 4102, 4202, 4626; and 6 hours of selected topics in graphic design. At least 6 hours of materials, tools and technology electives must be taken from CI 3533 (Advanced Video Production), TEC 1002, 3042, 4001; and others with written approval of the advisor. Twelve hours of art history including ART 2030 and 3030 are also required.

Students majoring in art must make a minimum grade of "C", (2.0) in each art course.

Courses stipulated as prerequisites for subsequent art courses must be successfully completed with a grade of "C" (2.00) or higher before a student may continue on to the next level of coursework.

All freshmen and transfer students wishing to pursue the BA, BFA or BS degrees in art must submit a portfolio of slides to the Department of Art immediately following acceptance by Appalachian's Office of Admissions. Letters will be sent concerning specifics or the Department of Art's secretary can be contacted. If there is limited background, a student may enroll in ART 1011, 1012, 1013 before submission of the portfolio.

Near the conclusion of the third semester at Appalachian State University (perhaps earlier for Graphic Design majors), students are eligible to submit portfolios in application for acceptance into a particular degree. The portfolio must include work from courses in the foundations core and from at least three courses in the studio core (2000 level studio courses). Graphic design candidates submit work from ART 1001, 1002, 1003, 1102 and 2103. All students must submit portfolios before preregistering for any 3000 level studio course. Particulars will be announced each semester.

Students wishing to transfer art studio credits will be expected to submit a representative portfolio (slides) of work and transcript for review by appropriate faculty members. Ap-

proval of transfer credits must be completed prior to registration. Students planning to register for a Fall or a Spring semester should submit their portfolio and transcript during the scheduled transfer evaluation meeting. This meeting takes place each semester, usually two days before the first class meeting. Information concerning the exact date, time, and place for this meeting is supplied during freshman and transfer orientation and may also be obtained by contacting the Department of Art. Students planning to register for summer school term(s) should submit their portfolio and transcript by May 1. Particularized information concerning these procedures can be obtained by writing the chairperson.

The Department of Art requires that each senior art major participate in an exhibit, with other seniors, of new work during their final spring semester at Appalachian State University. The dates of this exhibit will be established one year in advance. Participation in this exhibit is a departmentally recognized requirement for graduation.

A minor in art consists of 9 semester hours in ART 1011, 1012, 1013 and 9 hours from ART 2011, 2016, 2030, 3030 or any art studio with permission of the instructor.

The Department of Art offers the Master of Arts in art education with concentrations in community, junior and technical college teacher and art teacher (K-12 certification). Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in art (ART)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1000. Equipment and Materials/(3).F;S.
A study of equipment and materials necessary in the production of art. Study and use of hand and power tools, materials and processes as related to diverse studio needs. Prerequisite: portfolio admission into the Department of Art. Lecture and studio four hours.

1001. Foundations I/(3).F;S.
Basic introduction to two-dimensional design emphasizing the structural elements of art, the principles of visual organization, and the psychological effects of visual decision making. The basic theories and schematic uses of color will also be explored as well as an introduction to the critical and analytical approaches to the visual arts. Prerequisite: portfolio admission into the Department of Art. Lecture and studio four hours.

1002. Foundations II/(3).F;S.
This course is the second half of an introduction to the structural elements of art, including more detailed color theory and an exploration of the organizational principles of three-dimensional design. Emphasis is on three-dimensional vocabulary, understanding of sculptural space, and material manipulation. Historical and psychological aspects of color will be explored along with the application of color mixing in the making of art. Prerequisites: ART 1001. Lecture and studio four hours.

1003. Foundations Drawing/(3).F;S.
An introductory experience in drawing with emphasis on visual awareness, perceptions, and interpretation. An orientation to basic tools, materials, and techniques is centered on drawing basic forms (cylinder, sphere, cone & cube) and continues through more complex objects and spatial contexts (still-life, interior, architectural exterior, and the human form). Should be taken concurrently with one other foundations level course. Prerequisite: portfolio admission into the Department of Art. Lecture and studio four hours.

1010. Visual Communication/(3).F;S.
This course examines the significance of the image as a vehicle of communication. Concepts and techniques taken from historical as well as from contemporary sources will seek to develop an understanding of the nature of the visual process and its importance in human lives. Studio work will include art experiences designed to increase an understanding of form and of content. Lecture and studio four hours.

1011. Design Foundamentals I/(3).F;S.
A thorough introduction to the understanding, analysis and applications of the structural elements and the organizational principles of two-dimensional design. Further structural analysis will be included in order to develop one's critical and aesthetic evaluation skills. Lecture and studio four hours.

1012. Design Fundamentals II/(3).F;S.
Second half of basic studio problems in visual design offering further work with the structural elements and the organizational principles dealing now with three-dimensional design and space. Guided structural analysis will continue in order to develop aesthetic evaluation perceptions and skills. Prerequisite: ART 1011. Lecture and studio four hours.

1013. Drawing Fundamentals/(3).F.
Introduction to the drawing experience with emphasis on the development of eye/hand coordination and on basic techniques and skills necessary for the interpretation of visual form. Lecture and studio four hours.

1102. Graphic Design I/(3).F;S.
This course is a graphic design foundation course that prepares the student for more complex creative problem solving projects. The course challenges the student to further develop design skills as well as to develop the technical skills of a graphic designer. Prerequisites: ART 1001 and 1003. Lecture and studio four hours.

2007. Clay I/(3).F;S.
An introduction to clay and clay bodies using all phases of handbuilding. An over-all investigation of clay techniques emphasizing form and design. Prerequisites: ART 1000, 1001, 1002 and 1003. Lecture and studio four hours.

2008. Fibers I/(3).F;S.
General introduction to and involvement with basic fibers processes. Emphasis on fibers processes as a visual and personal problem-solving experience. Prerequisites: ART 1000, 1001, 1002 and 1003. Lecture and studio four hours.

2009. Alloys I/(3).F.
An introduction to alloys and related media through the synthesis of aesthetic concepts and technical skills used in the fabrication of designs in metal. Prerequisites: ART 1000, 1001 and 1002. Lecture and studio four hours.

2011. Art Introduction/(3).F;S;SS.
Analysis of selected examples of architecture, sculpture, painting, crafts, and industrial design in relation to their historic time and need. Three hours lecture.

2012. Humanities-Music, Art, and Ideas I/(3).F.
A course which concentrates on the interplay of art, music, philosophy and religion in the ancient through medieval cultures and their influences as manifested in other centuries.

2013. Humanities-Music, Art, and Ideas II/(3).S.
A course which concentrates on the interplay of art, music, philosophy and religion in contemporary culture.

2016. Studio for Non-Art Majors/(3).F.
Studio course for the art minor and other non-majors wishing to pursue the art-making experience in various studio areas (alloys, clay, fibers, painting, photography, printmaking, and sculpture). Course may be repeated barring duplication of studio area. Prerequisites: ART 1011, 1012 and 1013 or by permission of the instructor. Lecture and studio four hours.

2020. Art in the Elementary School/(2).F;S;SS.
Experiences developing understanding of perceptual growth of the child, aesthetic content in art, concepts from elements in art forms, teaching methodology, and the teaching of an art unit in a laboratory setting. No prerequisite. Two hours per week lecture. Laboratory will include art experiences designed to increase the students' understanding of the artist's use of elements in art forms, media selected for adaptability into the elementary classroom, both two and three dimensional work. Two hours per week laboratory.

2025. Introductory Printmaking/(3).F;S.
A general introduction to printmaking: its history, development, techniques, and processes. Emphasis is on an in-depth study and application of certain relief and intaglio forms of printmaking along with an investigation into image source and development. Prerequisites: ART 1000, 1001, 1002 and 1003. Lecture and studio four hours.

2026. Photographic Design I/(3).F;S.
Fundamentals of photographic design are investigated using student-made pinhole cameras as

well as photograms. Emphasis is on compositional development, aesthetic imagemaking and comprehensive black/white paper processing. Prerequisites: ART 1001. Lecture and studio four hours.

2030. Ancient Through Renaissance Art/(3).F.
A survey of painting, sculpture, and architecture from prehistoric times through the sixteenth century. Sophomore standing or consent of instructor. Lecture three hours.

2100. Painting I/(3).F;S.
An introduction to the medium of oil or acrylic paint with emphasis on color and composition. Assigned paintings, individual attention, class critiques, and extensive use of master works will enable the student to become fluent in the use of paint, especially as it relates to other aspects of art. Prerequisites: ART 1000, 1001, 1002 and 1003. Lecture and studio four hours.

2101. Sculpture: Modeling and Casting/(3).F.
An introduction to sculptural ideas and concepts developed through modeling in clay, wax and plaster molding processes. An introduction to foundry casting includes basic sand casting and plaster investment processes. Prerequisites: ART 1000, 1001, 1002 and 1003. Lecture and studio four hours.

2102. Typography/(3).F;S.
A concentration in the study of typography. Course includes a survey of major typographical trends, analysis of letterforms, typesetting methods and the use of type in layout design. Prerequisites: ART 1001 and 1003; this course may be taken at the same time as, but not before ART 1102. Lecture and studio four hours.

2103. Drawing II/(3).F;S.
Involvement with a variety of drawing concepts and media. Emphasis on student development of compositional concerns, graphic expression through media and process, and content. Both subjective and conceptual approaches will be undertaken in drawing exercises. The course also includes life studies from complex still-lifes, landscapes, interiors, and the human figure. Prerequisites: ART 1001 and 1003. Lecture and studio four hours.

2201. Sculpture: Carving and Construction/(3).S.
An introduction to sculptural ideas and concepts developed through carving in stone and wood and additive construction in materials such as welded steel. The student is introduced to the use of specialized hand and power tools including pneumatic chisels and die grinders as well as power sanders and grinders required for shaping and finishing stone, wood and steel. Prerequisites: ART 1000, 1001, 1002 and 1003. Lecture and studio four hours.

2500. Independent Study/(1-4).F;S;SS.
Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: Permission of department chairperson.

3007. Clay II/(3).S.
An intermediate clay course developing technical skills using the potters wheel and emphasizing advanced form and design. Prerequisite: ART 2007. Lecture and studio four hours.

3008. Fibers II/(3).S.
Intermediat exploration in selected fibers processes. Emphasis on fibers as a visual and personal problem-solving process as well as thorough technical understanding. Prerequisite: ART 2008. Lecture and studio four hours.

3009. Alloys II/(3).S.
In this course, the student explores in-depth the various techniques that are utilized in casting metal. Prerequisite: ART 2009. Lecture and studio four hours.

3013. Introduction to New York/Washington Art Scene/(1).F;S.
The ASU-NY Loft and/or the Appalachian House in Washington are bases from which visiting groups of students will experience the art museums and galleries in each city. Trips to these cities, organized by art faculty, allow students to gain one semester hour credit. Individual projects are assigned by the instructor leading each trip. May be repeated for a total of three hours credit.

3025. Serigraphy/(3).F;S.
In-depth work with photomechanical screenprinting processes and techniques and with color theory. Emphasis is on the thorough investigation and development of diverse image sources resulting in unique pictorial statements. Prerequisite: ART 2103. Lecture and studio four hours.

3030. Baroque Through Modern Art/(3).F;S.
A survey of painting, sculpture, and architecture from the seventeenth through the twentieth century. Lecture three hours.

3100. Painting II/(3).S.
This course allows the student to continue painting processes begun in Painting I. Emphasis is on the gradual introduction of more difficult painting problems and more sophisticated ideas of color and composition. Prerequisite: ART 2100. Lecture and studio four hours.

3101. Sculpture II/(3).F;S.
Advanced student exploration of sculptural expression through an in-depth emphasis of selected media

and technical processes previously introduced in the 2000 level sculpture course. Prerequisites: Either ART 2101 or 2201. Lecture and studio four hours.

3102. Graphic Design II/(3).F;S.
Third course in graphic design sequence stressing creative problem solving techniques as applied to layout, color and typography. Prerequisites: ART 1002, 1102 and 2102. Lecture and studio four hours.

3202. Graphic Design III/(3).F;S.
A wide range of design problems involving a more complex application of conceptual and technical skills. An emphasis on creative problem solving, with projects being carried through to the mechanical stage. Prerequisites: ART 1000, 2103, 2026 and 3102. Lecture and studio four hours.

3421. Art Education: Professional Survey/(3).S.
A study of current trends and issues in the field of art education, including new technologies, research, and art teaching in areas such as public schools, community and adult education programs, art therapy situations, museums, early learning centers, and other alternative sites. Three hours per week lecture. Recommended to be taken concurrently with ART 3422. Prerequisites: ART 1000, 1001, 1002, 1003, and two beginning studio courses. Prerequisites may be waived for non-certification students, with permission of instructor.

3422. Art Education: Pre-School Through Age 12/(3).S.
Art in the elementary schools and for non-traditional groups of equivalent ages, considering needs, abilities, and interests. Experiences include philosophical approaches, lesson preparation (including concept development), instructional methods and materials, interdisciplinary content, and practicum experiences in the public schools and other relevant situations. Three hours lecture. Laboratory will focus on translating foundation studio experiences into appropriate aesthetic experiences for children. Recommended to be taken concurrently with ART 3421. Prerequisites: ART 1000, 1001, 1002, 1003 and two beginning studio courses. Prerequisites may be waived for non-certification students, with permission of instructor.

3500. Independent Study/(1-4).F;S;SS.
Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: permission of the department chairperson.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.

4012. Exhibitions Practicum/(3).F;S;SS.
Exhibitions research, selection, management, presentation, and promotion in conjunction with the operation of the Catherine J. Smith Gallery. May be repeated for a total of nine hours credit. Sophomore standing required. Lecture and practicum three hours.

4013. Practicum of the Artisan/(3).S.
Practicum of the artisan is an introduction to the theoretical and practical issues encountered by artisans on a day to day basis. Prerequisites: three to six semester hours in ART above 2000 level or permission of instructor. Lecture and studio four hours.

4014. Seminar/(3).S.
A special course offering based upon faculty and student interest in advanced studies in art, art history, art education, research, and inter-disciplinary art. Course may be repeated barring duplication of content. Times to be arranged. Prerequisite: permission of the instructor.

4025. Etching/(3).F.
Involvement with etching and other related intaglio processes with emphasis on thorough technical understanding and resolved pictorial statements. Offered even years only. Prerequisites: ART 2103 and 2025. Lecture and studio four hours.

4030. Art as Visual Language/(3).S.
A course in art criticism where techniques of analysis are approached through readings and demonstrations. Major emphasis is placed upon the interpretation and development of a critical approach. Offered even years only. Prerequisites: ART 2030 or 3030 or consent of instructor. Lecture three hours.

4100. Painting III/(3).F.
Advanced study in painting which offers more challenging assignments than the preceding two courses. This course allows more choices and greater flexibility in order to encourage the development of individual techniques and styles. Prerequisites: ART 2103 and 3100. Lecture and studio four hours.

4102. Graphic Design IV/(3).F;S.
Advanced design problems with increased complexity, with emphasis on design systems and experimentation with various media. Encourages awareness of contemporary design trends and their historical predecessors. Prerequisites: ART 1000, 2103, 2026,

and 3102; this course may be taken at the same time as, but not before ART 3202. Lecture and studio four hours.

4202. Graphic Design V/(3).F;S.
The culminating course in the graphic design major sequence; stresses development of creativity and technical proficiency; emphasis on pre-professional training in advanced design problems, portfolio preparation and presentation, and related professional skills. Prerequisites: ART 3025, 3202 and 4626; this course may be taken at the same time as, but not before ART 4102. Lecture and studio four hours.

4421. Art Education: Age 13 Through Adulthood/(3).F.
Art in the middle and senior high schools and for non-traditional groups, stressing personal development, methods and materials, environmental influences, and interdisciplinary relationships. Practicum experiences will be in middle schools, high schools, and relevant alternate sites. Three hours per week lecture. Prerequisites: ART 3421 and 3422. Recommended to be taken concurrently with 4422. Prerequisites may be waived for non-certification students, with permission of instructor.

4422. Art Education: Curriculum and Professional Preparation/(3).F.
Curriculum study for the public school art teacher and the non-traditional teaching situation based upon an examination of the broader goals of art education. Includes studies in curriculum theory, development, management, and evaluation. For the teacher certification major. Three hours per week lecture. Recommended to be taken concurrently with ART 4421. Prerequisites: ART 3421 and 3422. Prerequisites may be waived for non-certification students, with permission of instructor.

Senior/Graduate Courses

4521. Art Education Workshop/(1-3).On Demand.
An intensive course devoted to art instruction in grades K-12, including the relationships of studio art to teaching at selected levels. Art methods and materials for grade levels will be examined. Prerequisites: ART 4422 or permission of instructor.

4551. Studio Workshop/(1-3) On Demand.
An intensive course to be offered in selected media such as drawing, printmaking, painting, photography, sculpture, clay, fibers, alloys, computer graphics, and others. Prerequisite: portfolio review or permission of instructor.

4600. Painting IV/(3).S.
The final, senior-level course that allows independent direction in approach and style. The course is designed for the serious, self-directed student who can maintain a personal interest and involvement in painting. Prerequisite: ART 4100. Lecture and studio four hours.

4601. Sculpture III/(3).F;S.
Advanced development of sculptural expression in student direction and media. The student will be expected to develop a personal approach to sculptural content, style, use of media and standards of critical judgement in the analysis of one's own work. Prerequisite: ART 3101. Lecture and studio four hours.

4607. Clay III/(3).S.
Advanced study in clay techniques including in-depth individual exploration in one area of concentration, with strong emphasis on form and design. Prerequisite: ART 3007. Lecture and studio four hours.

4608. Fibers III/(3).S.
Advanced study in selected fibers processes. Emphasis on in-depth individual study, fibers as a visual and personal problem-solving process, and enhanced technical applications. Prerequisite: ART 3008. Lecture and studio four hours.

4609. Alloys III/(3).S.
In this course, the student will continue to develop skills acquired in 2009 and 3009. The student will also be introduced to information concerning the durability of gemstones and the techniques used to display them. Through the introduction of computer programs, the student will learn how to improve production techniques and evaluation processes. Prerequisite: ART 3009. Lecture and studio four hours.

4625. Lithography/(3).S.
The basic chemistry, processes and techniques of black and white stone lithography with emphasis on technical understanding and control and on the development of personal visual statements. Color and metal plate lithography will also be introduced. Offered even years only. Prerequisites: ART 2103 and either 2025 or 3025. Lecture and studio four hours.

4626. Photographic Design II/(3).F;S.
Introduction to black/white 35mm photography with emphasis on correct exposure, aesthetic image manipulation, darkroom procedures and techniques, and conceptual problem-solving. Students must have an adjustable, SLR 35mm camera. Prerequisite: ART 2026 or instructor approval prior to registration. Lecture and studio four hours.

4630. American Art History/(3).S.
A course that acquaints the student with the evolution of art in the United States from colonial times

until the present. Offered odd years only. Lecture three hours.

4726. Photographic Art Reproduction/(1).On Demand.
Instruction in basic techniques for shooting, developing, and printing both color slides and black/white prints of art work for portfolio and/or educational purposes. Emphasis is on film, lighting, and copy techniques. Must have a 35mm camera. Prerequisites: ART 1001 and 1002.

4851. Senior Studio/(6).F;S.
Advanced sustained studio production within the student's area of emphasis with opportunities for presentations, discussion and critique reviews in a group setting of faculty and other senior students. Students are required to set course direction and goals with approval of the BFA committee. Prerequisites: 9-12 s.h. in one studio area. May be repeated once in same or other area.

4900. Internship: Field Experience/(3-12).SS.
An on-the-job experience with artists, museums, galleries, and businesses related to the promotion of art professions. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Communication (COM)

Terry W. Cole, Chairperson

The objectives of the Department of Communication are to prepare those who are planning careers as teachers in the areas of speech communication; to prepare those interested in a career in broadcasting, advertising, and public relations; to provide a broad background of information and develop speech communication skills needed by those students planning to enter other professions; to provide for the University and community the stimulation of debates and discussions of current issues, and the informative and entertaining programs of radio.

The Department of Communication offers a diversified series of courses in the areas of speech communication, broadcasting, journalism, public relations, and advertising. The department supports co-curricular programs including competitive intercollegiate forensics, the Appalachian radio station, WASU-FM, and advertising competition. Also, the department actively supports student organizations which are related to communication, such as the Forensics Union, National Broadcasting Society, Alpha Epsilo Rho, Pi Kappa Delta - National Forensics Honorary, Ad-Plus, and the Public Relations Student Society. Communication majors are expected to participate in the co-curricular activities of the department.

To be qualified for admission to the Department of Communication, a student must have:
1. a grade-point average of at least a 2.50
2. completed the following COM core courses with a grade of "C" or above in each: COM 2101, 2121, 2300, 2305
3. passed a standardized grammar-spelling test (administered by the department).

A minor in communication consists of 18 semester hours above the 1000 level selected in consultation with and approval of the chairperson.

The Department of Communication offers a program which permits a major to acquire a degree in communication and qualify for entrance into the MBA program in the College of Business. For information on this program see the department chairperson.

The Bachelor of Arts degree in speech consists of 39 semester hours above the 1000 level. This must include: COM 2101, 2102, 2106, 2110, 2305, 3109, 3110, 3111, 3152, 3155, 4180; TD 2610, 3615; and SOC 3750. A minor of 12-18 s.h. is required and also six semester hours of a second year foreign language or higher. (Also, a 3 s.h. history course must be chosen under the advisement of the COM chairperson.)

The Bachelor of Science degree in speech teaching with a concentration in speech communication (K-12) consists of 52 semester hours above the 1000 level. This must include: COM 2101, 2102, 2106, 2110, 2305, 2316, 3109, 3110, 3111, 3155, 3316, 4175, 4180; and TD 2230, 2610, 2620, 3615, 3630, 3856. (Also, a 3 s.h. history course must be chosen under the advisement of the COM chairperson.) For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Science degree in communications with a concentration in broadcasting consists of 49 hours which must include the following: COM 2101, 2102, 2121, 2300, 2305, 2316, 2600, 3155, 3300, 3301, 3316, 4315, 4316; ART 1010; TEC 2803; and 6 s.h. from the following: COM/TD 2309, 2612, 4300, COM/TD 4302. A minor is required.

The Bachelor of Science degree in communications with a concentration in journalism consists of a core curriculum of 14 semester hours. The core consists of COM 2101, 2121, 2300, 2305 and 3300. In addition to this core, 38-39 semester hours are required, including six (6) from PS 2130, 3120, 3280, CJ 2050; six (6) from ECO 1010, 2040, FIR 3010; six (6) from GHY 1020, SOC 2000, 3750, HIS 2101, 2204; and COM 2110 (or 3155), 2315 (2 s.h.), 2600, 2610, 2612, 3100, 3600, 4200. The 14-hour core is required in lieu of a minor; however, a minor is recommended. In addition, students are required to take ECO 2030 as a general education requirements.

The Bachelor of Science degree in communications with a concentration in advertising consists of a core curriculum of 14 semester hours. The core consists of COM 2101, 2121, 2300, 2305 and 3300. In addition to this core, 37 semester hours are required. Included must be: MKT 3010, 4609; PSY 3351; TEC 3042; ART 1010; COM 2110, 2600, 2700, 3155, 3301, 3320, 4300 and 4400. In addition, students are required to take ECO 2030 and PSY 1200 as general education requirements.

The Bachelor of Science degree in communications with a concentration in public relations consists of a core curriculum of 14 semester hours. The core consists of COM 2101, 2121, 2300, 2305 and 3300. In addition to this core, 29 semester hours are required. Included must be: TEC 3042; COM 2106 or 3155, 2600, 2610, 2318, 3301, 3330, 3600, 4318; and CI 4740 or TEC 1022. In addition, students are required to take ECO 2030 as a general education requirement. A minor is required from the following: general business, marketing, or international business.

Students majoring in the Department of Communication are required to make a grade of "C" or better in each COM course. Courses stipulated as prerequisites for subsequent COM courses must be successfully completed with a grade of "C" or higher before a student may continue on to the next level of coursework.

Courses of instruction in communication (COM)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1100. Introduction to Speech Communication/(2).F;S;SS.
Introduction to the theory and practice of speech communication. A grade of C or higher in this course fulfills the speech proficiency requirement for teaching majors.

2101. Public Speaking/(2).F;S;SS.
Intensive practice in composition and delivery of various types of speeches with emphasis on speech structure and style.

2102. Voice and Diction/(2).F;S;SS.
Instruction and practice in voice production and articulation; analysis of regional speech differences and standards.

2106. Argumentation and Advocacy/(3).F.
Study of the theory of argumentation including the reasoning process; the use, discovery, and evaluation of evidence; refutation; advocacy situation analysis and adaptation. Practice in speaking in a variety of advocacy situations and types.

2110. Introduction to Nonverbal Communication/(2).F;S:SS.
An introduction to nonverbal behavior as a form of communication, with emphasis upon nonverbal communication in the classroom, in the business world, and in general interpersonal relations. Examination will be made of such areas of nonverbal behavior as kinesics (body language), haptics (communication through touch), proxemics (use of space and communication), paralinguistics (vocal cues in communication), and nonverbal factors in communication between variant ethnic groups and cultures.

2115. Speech Activity/(1).F;S;SS.
Participation in activities of the Forensic Union or other projects approved by the department. The student will contract with the appropriate staff member for the activities of this course. May count four (4) hours toward graduation.

2121. Interpersonal Communication/(3).F;S.
Study and application of basic communication concepts to interactive communication situations and problems. Students will be involved in various activities pertinent to understanding these concepts.

2300. Introduction to Mass Communications/(3).F;S;SS.
Study of the forms of mass communication including newspaper, magazine, radio, television, books, and film.

2303. Acting for Non-Theatre Majors/(2).F;S.
A basic course in the fundamentals of acting for the stage. Emphasis is on expansion of the individuals awareness and use of relaxation, concentration, body, voice, and imagination through theatre games and improvisation. One hour lecture, two hours lab. (Same as TD 2303.)

2305. Law and Ethics of Communication Media/(3).F;S;SS.
A study of the legal sanctions and constitutional freedoms affecting the communications media. Consideration is given to the principles of professional ethics and social responsibility of the mass communicator.

2309. Scenic Technology for Broadcasters/(3).F;S.
A course designed to introduce broadcasting students to basic scenic and lighting techniques used in the television studio. (Same as TD 2309.)

2315. Mass Communication Activity/(1).F;S;SS.
Participation in broadcasting or journalism activity. Students will contract with the appropriate faculty member to work in radio, TV, or journalism. Maximum of four hours may be applied to graduation.

2316. Radio Production/(3).F;S;SS.
Radio broadcast procedures; program types and standards; social and programming aspects; laboratory practice in radio, use of facilities of radio station WASU-FM.

2318. Public Relations Principles/(3).F;S;SS.
This course serves as an introductory course that overviews the technical elements and basic principles of public relations. It introduces the students to the concepts and activities that form the foundations of a professional practice. Prerequisite: COM 2600.

2500. Independent Study/(1-2).F;S;SS.

2600. Introduction to Journalism/(2).F;S;SS.
Introduction to news gathering, writing, and editing processes.

2610. Print Newswriting/(3).F;S;SS.
Study of newswriting for newspapers and magazines. Emphasis on techniques of interviewing, newsgathering, newswriting, and typing news stories. Prerequisite: Reasonable typing skills, COM 2600 or the consent of the instructor.

2612. Broadcast News Writing/(3).F;S.
Study of news gathering and news writing for radio and television. Emphasis on techniques of interviewing, news gathering, news writing and preparing broadcast news stories. Prerequisite: reasonable typing skills; COM 2600 or the consent of the instructor.

2700. Foundations of Advertising/(3).F;S.
An introductory course that examines advertising as a form of communication. After a brief examination of history, role in the economy, external restraints and customer behavior, the course concentrates on theories and principles of media messages and management as well as advertising applications and trends.

3100. Interviewing Techniques/(3).On Demand.
Study of the variables present in informational, persuasive, and employment interview situations. Practice in classroom stimulation interviews. Prerequisite: junior or senior standing or permission of the instructor.

3109. Parliamentary Procedure/(1).F;S.
An introduction to the basic principles of parliamentary procedure, with emphasis upon types of motions, procedural rules in the deliberative process, functions of a chairperson, formalities of parliamentary debate, order of business, the typical association's constitution, etc. The course involves both theory and practice, closing with a mock assembly conducted under Robert's Rules of Order.

(EFFECTIVE SPRING, 1994)
3109. Meeting Management/(2).F;S.
An introduction to basic principles of meeting management, including procedural rules embodied in *Robert's Rules of Order*, goals establishment and agenda setting, the role and powers of the chair, traditional orders of business, group dynamics operative in deliberative meetings, debate management techniques, common interpersonal problems in deliberative settings, closure techniques, etc. The course involves both theory and practice, closing with a mock assembly conducted under *Robert's Rules of Order.*

3110. Small Group Communication/(3).F;S.
The theory and practice of small group communication, with emphasis upon the psychology of small group interaction, styles and methods of leadership, environments and small group interactions, and problem/solution methodologies in small group interactions. Students are provided the opportunity to apply theory in actual small group projects.

3111. Theory and Criticism of Rhetorical Communication/(3).F.
Study of the classical foundation of rhetorical theory with emphasis on Greek and Roman contributions and theorists. A study of methodologies of rhetorical criticism including those of the classical-traditional, experiential, new rhetoric and contemporary. Application of rhetorical theory and criticism to actual rhetorical events and situations.

3124. Intercultural Communication/(3).F.
Examines communication practices in multi-cultural settings including international, national, regional, ethnic, racial, economic, religious, and other topics of pertinence to effective intercultural communication. Students will be involved in observational activities and research activities to examplify intercultural communication differences in a practical way.

3152. Communication in Organizations/(3).F;S;SS.
Examines communication within organizational structures; develops skill in language, observation and listening; teaches improved communications skill through interview and formal presentations. Oriented to the speech communication requirements of the contemporary business and professional community.

3155. Theory and Practice of Persuasion/(3).F;S;SS.
Survey of the theories of persuasion, with emphasis upon persuasive forms in public address, print and non-print advertising, and all general forms of public suasion. Practice in the preparation of a persuasive campaign, with options open for that campaign to be developed for one or more media.

3300. Mass Media and Society/(3).F;S.
A survey of the social impact of mass media. Analysis of issues such as mass media and individual behavior, violence and TV, media and consumers, and mass media and popular culture.

3301. Writing for Radio and TV/(3).F;S.
Formats and techniques of writing for the broadcast media.

3316. TV Production/(3).F;S.
Technical, aesthetic, organization, and business aspects of television production with an emphasis on current equipment and production techniques; laboratory practice in television production. Two hours lecture, two hours laboratory. Prerequisite: COM 2316.

3320. Broadcast Production/(3).F;S.
A course for non-broadcasting majors. Introduces students to the basic terminology, equipment and operating procedures used in the production of material for radio and television. Includes radio and television laboratories. Two hours lecture, two hours lab.

(EFFECTIVE FALL, 1992)
3330. Public Relations Programs and Management/(3).F;S;SS.
Public relations programs and management provides the student with the skills to manage a public relations function and its programs. Students will have an understanding of management's expectations of them when they begin an internship or work and will be prepared to supervise public relations projects and advance professionally into management. Prerequisite: COM 2318.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.
A program involving advanced study, a research or creative project, and writing. Adapted to serve students who have exceptional interests. The proposals for this work must be approved by the instructor and the chairperson of the department prior to registration.

3600. Advanced Journalism/Public Relations Writing/(3).F;S.
Study of principles, processes and techniques of editorial and feature writing for print media. Intense practical training in advanced writing styles and skills. Students in the public relations concentration are to enroll in designated sections where their skills in developing and preparing collateral public relations materials are increased. Prerequisites: COM 2600, 2610, or consent of the instructor.

3900. Internship/(3-12).F;S;SS.
A designed work experience program in either broadcasting, theatre, or speech communication. Graded on S/U basis.

(EFFECTIVE FALL, 1994)
4101. Advanced Speech Composition/(3).F.
Theory and practice of writing the spoken word. Study of speech composition and the role of speech-making in various professional settings. Special emphasis upon style, organization, support, and criticism of the public speech with a primary emphasis upon manuscript speaking. Prerequisite: COM 2101 or permission of instructor.

4175. Directing Co-Curricular High School Program/(2).F.
Prepares students to conduct the co-curricular programs of dramatics and forensics in high schools and junior high school.

4180. Communication Theory/(3).F;S.
Study of communication theories, systems, models, formulations and measurements; new dimensions in speech criticism and research methodology; critical study of published reports in the contemporary literature of the field.

EFFECTIVE FALL, 1993)
4200. Editing, Layout and Design for the Print Media/(2).F;S.
This course focuses on two major components of newspaper production: (1) editing and (2) layout and design. Both deal with the "readability" and "visual appeal" of a publication. Many of the techniques taught in the course will be applicable to magazine production as well. Prerequisites: COM 2600 and 2610.

4300. Media Sales/(3).F;S.
A study of the techniques used by the mass media to sell space and time to advertisers. Included is a study of personal selling; company, product, and audience research; media-audience matches; and media sales presentations. Also examined are the strengths and weaknesses of a variety of print, radio and television advertising techniques and strategies.

4302. Broadcast Performance Techniques/(3).S.
A study and application of specific performance techniques (i.e., voice, body, manuscript usage, personality) related to the broadcast industry. Students will experience a variety of radio and television performance and announcing situations directed towards improving their broadcasting performance skills. Prerequisites: COM 2102 and 3316. (Same as TD 4302.)

4315. Broadcast Programming and Management/(3).F;S.
A seminar approach to contemporary programming techniques for broadcasting including programming analysis, development, and implementation in real and hypothetical situations. Emphasis on management functions of audience analysis, selection of formats, financial considerations, engineering problems, and personnel planning.

4316. Advanced TV Production/(4).F;S.
Advanced problems in dramatic and non-dramatic television for producer, director, and performer; professional level production. Prerequisite: COM 3316.

4318. Public Relations Practices/(3).F;S.
An advanced course which uses case studies to examine public relations problems and their solutions. Students receive practical guidance in the creation of public relations messages and products.

(EFFECTIVE SPRING, 1994)
4400. Advertising Campaigns/(3).S.
This course is designed to teach the student how to prepare an entire advertising campaign from start to finish. As such, it will incorporate knowledge gained from the variety of courses the student has had previously. Prerequisites: senior standing, COM 2700, 3301, or permission of instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Health, Leisure and Exercise Science (HLE)

Vaughn K. Christian, Chairperson

The Department of Health, Leisure and Exercise Science, as part of the College of Fine and Applied Arts, assumes the responsibility for educating students to understand the significance of human movement, quality leisure, optimal health, and personal safety. The department offers instruction, research and services to meet these needs and respond to current societal trends. Consequently, the student is prepared to develop and lead related activities and programs in a variety of community settings, having acquired knowledge and skills to plan and implement programs for diverse populations. The department also offers ongoing services for all students, faculty and staff, and actively supports the following student organizations: Health Educators and Professionals Club, Physical Education Academy (ZAPEA), and Professional Recreators Association.

Physical education, K-12 (with teacher certification)

Graduates earning a BS degree in physical education will have an understanding of: the relationship of the structure and the function of the human body to effective living, methods and techniques used to develop motor skills, the implementation of programs and services, and the use of evaluative techniques.

A Bachelor of Science degree in physical education, K-12 with teacher certification consists of 40 semester hours in addition to the general education requirements. As part of the general education requirements, the student must select six to eight semester hours of biology, chemistry or physics; PE 1102 and 1103 as activity courses; HIS 1101 and 1102; MAT 1020 or higher; and SOC 3700. Core courses in the major include PE 1202, 1203, 1550, 2001, 2002, 2010, 2015, 2020, 2556, 2560, 3002, 4000 and 4002. The student who is interested in teaching at the secondary school level selects courses in the secondary school emphasis: PE 3000 and 3001. The student interested in teaching in the elementary school level selects courses in the elementary school emphasis: PE 3011 and 3021. Proficiency is required in Standard First Aid/CPR prior to enrolling in PE 3000 and 3011. No minor is required, but the student must select an academic concentration from one of the following:

anthropology	27 sh	biology	24-27 sh
chemistry	24-28 sh	dramatic arts	24 sh
economics	27 sh	English	27 sh
French	24 sh	geography	24-27 sh
geology	24-27 sh	history	26-27 sh
mathematics	25-26 sh	music	27 sh
philosophy/religion	27 sh	physics/astronomy	27 sh
political science	27 sh	psychology	24 sh
Spanish	24 sh	speech	24 sh

For the requirements in teacher education, see the Department of Curriculum and Instruction.

Physical education/exercise science
The Bachelor of Science degree in physical education/exercise science (without teacher certification) consists of 75-81 semester hours in addition to the general education requirements. The required courses include: AT 1600; PE 1013, 1014, 2010; ES 2000, 2005, 3450, 3550; allied courses include BIO 1101, 3300, 3301; CHE 1101, 1102, 2201; PHY 1103-1104, 1700, 4820; PSY 1200, 4650; ANT 1215; MAT 1020. In addition, students must take 21-26 hours of electives. Those wishing to concentrate in exercise science should take: ES 4005, 4055, PE 2020; PSY 4700; HCM 3110; SOC 3100, BIO 3306; 5-8 s.h. of electives and must meet proficiencies in racquetball, tennis, speech, swimming and CPR. Those wishing to pursue an athletic training and sports medicine concentration (which also prepares the student for NATA athletic training certification) should take the following: AT 2100 (2 s.h.), 3215, 3600, 3610, 3615, 3620, 4025; COM 1100, HP 1105, 3100; HEC 2202; STT 3810. In addition, students must take 6-7 semester hours of electives from: ES 4005; HEC 3205, 4200; HED 4650; BIO 3306; CHE 2202; PSY 4700, meet proficiencies in speech, CPR and two lifetime activities. The athletic training student must spend a minimum of four semesters beyond the sophomore year (minimum 800 hours) in the training room, gaining clinical experience under the supervision of a N.A.T.A. certified athletic trainer. No minor required.

The athletic training curriculum requires the student to apply for admission to the curriculum and maintain a 2.5 overall GPA. Students must also earn a grade of C or better in AT 1600, 3215, 3600, 3610, 3615, 3620 and 4025 to complete the concentration. Write the director, athletic training curriculum for an application and information.

Athletic training (leading to N.A.T.A. certification)
A non-degree program in athletic training is open to all majors and appropriate for students pursuing teaching certification. This program provides academic and clinical preparation for students pursuing N.A.T.A. (National Athletic Trainers Association) certification and planning to enter the athletic training profession only. The following courses are required: AT 1600, 2100 (2 s.h.), 3215, 3600, 3610, 3615, 3620, 4025; ES 2000*, 3550*; PE 2010*; HP 1105*, 3100*; HEC 2202; and ES 2005, 3450, 4005, or ES 2005, PE 1550*, 4000*. Students will be expected to complete the following courses as part of their General College course work: PHY 1103-1104; MAT 1020 or above; ANT 1215; PSY 1200 and PE 1013, 1014; or PE 1102*, 1103*.

(*denotes courses which are normally taken as part of a PE undergraduate major.)

In addition, the students must spend a minimum of four semesters beyond the sophomore year (minimum 800 hours) in the training room, gaining clinical experience under the supervision of a N.A.T.A. certified athletic trainer.

The athletic training curriculum requires the student to apply for admission to the curriculum and maintain a 2.5 overall GPA. Students must also earn a grade of C or better in AT 1600, 3215, 3600, 3610, 3615, 3620 and 4025 to complete the concentration. Write the director, athletic training curriculum for an application and information.

Minor in physical education
A minor in physical education consists of 20 semester hours. The program is designed individually according to the student's interests and designated major, and in consultation with the advisor, area coordinator and department chairperson.

Minor in exercise science
A minor in exercise science consists of 18 semester hours. The minor is designed individually according to the student's interests and designated major, and in consultation with the advisor, area director, and department chairperson.

Minor in athletic coaching (non-PE major)
A minor of 23 semester credits in athletic coaching is open to nonphysical education majors. Courses required include: ES 2000 OR PE 2001; HP 3100; PE 1102 and 1103, 3510, 4002; ES 3550; AT 1600, one course from core I, individual and dual skill and technique courses; one course from core II, team sport skill and technique courses. Six-eight semester hours of biology or chemistry or physics are also required for the general education requirements.

Health

Students earning a BS degree in community health education (non-teaching) will have the competencies needed to provide leadership in health promotion and disease prevention for communities, hospitals, voluntary agencies, schools, and private industry.

Community health
A Bachelor of Science degree in community health education (non-teaching) consists of a minimum of 61 s.h. in addition to general education requirements. Six to eight in sequence semester hours of biology or chemistry are required. A minor is required and is to be chosen from either exercise science, foods and nutrition, general business, psychology, or sociology. The degree also includes a 6 s.h. internship (HP 4900).

I. Required courses (61 s.h.): SOC 1000, 1110; COM 1100 or 2101; CS 1410; ES 2000, 2005; HP 2100, 2200, 3100, 3130, 3200, 3700, 4100, 4200, 4900; HEC 2202; PSY 2203; MGT 3010; HED 4650; CI 3750.
II. Minor (12-15 s.h.)—choose one:

Exercise science (18 s.h.): ES 2005 (one of required courses for major); PE 2010, 2020; ES 3450, 3550, 4005.
OR
Foods and nutrition (18 s.h.): HEC 2202 (one of required courses for major); HEC 1202, 2203, 2204, 3205, 4204.
OR

General business (18 s.h.): ECO 2030; ACC 2100; MGT 3010; MKT 3010; FIR 3010; and one course from ECO 2040, 2100; ACC 2110; FIR 2150; or CIS 2660.
OR
Psychology (15 s.h.): PSY 2203 (one of required courses for major); PSY 1200, 2205, 3301, 3303, 4562.
OR
Sociology (18 s.h.): SOC 1000 and 1110 (required courses for major), SOC 2000, 3100, 3600, 4750.

III. Electives (5-10 s.h.) to total 122

Minor in community health
A minor in community health consists of 17 semester hours. Required courses are: HP 1105, 2100, 2200, 3700; HEC 2202; and HED 4650. Six to eight semester hours in sequence of biology or chemistry are required.

Leisure studies

The leisure studies division offers a Bachelor of Science degree in recreation management. This degree prepares the student for careers in outdoor recreation, travel and tourism, club management, military recreation, recreation program management, or public and private recreation enterprises. Students must complete the required core and select a concentration in either recreation and park management or commercial recreation management to total sixty-two (62) semester hours. Students are required to complete an internship and a minor in a supporting field.

I. **Required courses:** (41 s.h.)—LS 2110, 2120, 2210, 2310, 2410, 3110, 3210, 3220, 3315, 4110, 4210, 4900 (8 s.h. internship, and GHY 3400.

II. **Concentration:** select one.

Recreation and park management—(21 s.h.)
Required: LS 3140, 3610, 4560, 4650 and choose A or B:
A. Select three (3) courses from the following: LS 2130, 4140, 4550, 4600, or HP 3100.
B. Complete the following: LS 4140, 4240, PE 1049 and two (2) courses from LS 3151, 3152, 3153, or 3154.

Commercial recreation management: (18 s.h.)
Required: LS 2130, 3230, 4550, FIR 2150 and choose one from both A and B:
A. LS 3140, 4560, 4600, 4650.
B. ECO 2030, ACC 2100

Internship information—two internships are listed: LS 4900 Internship II is required for the major in recreation management. LS 3900 Internship I is required for the minor in recreation. LS 3900 may be taken as an elective course by majors.

The following rules apply to prospective interns: (1) Any internship course may be repeated for added elective credit. (2) Credit for either internship course may not exceed 12 semester hours. (3) Not more than 15 semester hours of internship credit may be applied toward graduation requirements. (4) At least 6 semester hours must be registered for a summer internship. This rule applies to students in the minor program as well as to students in the major program; however, it does not apply to fall or spring internships. (5) On-the-

job internship time is determined by the ratio of 40 contact hours for one hour of credit. (6) All internships must be at least 6 weeks in continuous length. (7) All prospective interns must plan their placement under the supervision of a leisure studies faculty member.

Minor in recreation
A minor in recreation consists of 20 semester hours. Required courses are LS 2110, Introduction to Recreation and Leisure (3 s.h.) and LS 3900, Internship I (2 s.h. minimum). The remaining courses are to be determined individually to meet student needs through consultation with the leisure studies coordinator and the department chairperson.

Driver and traffic safety education

Students earning a B.S. degree in driver and traffic safety education will have the competencies and skills needed to develop and provide quality high school driver education and school safety education programs. The curriculum also serves as a basis for individuals desiring employment in the field of safety with the Armed Forces, industry, insurance and loss prevention companies and governmental agencies.

A Bachelor of Science degree in driver and traffic safety education with teacher certification consists of 37 semester hours. Twenty-eight semester hours are required from the following: HP 3100; HED 4650; TSE 2200, 3200, 3210, 4200, 4210, and 4750. Electives: nine semester hours from TSE 2500, 3500, 3530, 3750, 3900; PE 2020; and three semester hours of psychology or sociology (subject to stated prerequisites and not included in general education or professional education at upper division level) or SPE 3370. For the requirements in teacher education, see the Department of Curriculum and Instruction.

A satisfactory driving record must be maintained to receive teacher certification in driver and traffic safety education in North Carolina.

Minor in driver and traffic safety education
A minor of 16 semester hours in driver and traffic safety education is open to all majors and requires: TSE 2200, 3200, 3210, 4200, and 4210.

The Department of Health, Leisure and Exercise Science offers the following degrees at the graduate level: Master of Arts degree in health and physical education with a concentration in master teacher; Master of Arts in health and physical education (non-teaching) with a concentration in sports management; and the Master of Science degree in exercise science. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in athletic training; exercise science; health promotion; leisure studies; physical education; and driver and traffic safety education

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

ATHLETIC TRAINING (AT)

1600. Introduction to Athletic Training/(2).F;S.
An introductory course for athletic training students preparing to begin or be actively involved in their first semester of clinical experience in athletic training. Topics covered include safety in the training room, musculo-skeletal and surface anatomy, sports medicine terminology, injury evaluation, basic taping and the use of therapeutic modalities. The primary purpose of the course is to prepare the student to use the clinical experience as a learning tool. Two hours lecture, one hour laboratory.

2100. Athletic Training Clinical Seminar/(1,1,1,1).F;S.
This seminar class should be taken by the athletic training student during four (4) semesters beyond their freshman year in which they are full-time student trainers. Material will supplement the learning experience gained from clinical work. One semester hour in each of four semesters, fall and spring. Prerequisite: AT 1600. Graded on S/U, one hours lecture.

3215. Athletic Training Clinical Organization and Administration/(2).S.
A course focusing on the organizational and administrative components of an athletic training program including those pertaining to: a) facility design; b) health care; c) financial management; d) training room management; and e) public relations.

3600. Athletic Injury Assessment I/(2).F.
An advanced course in injury assessment. The course will include introductory material related to injury assessment and an in-depth investigation of lower extremity assessment. Prerequisites: AT 1600 and ES 2000. Two hours lecture.

3610. Treatment of Athletic Injuries/(2).S.
Designed for students seeking NATA certification. The course covers the physical basis and physiological effects of agents and modalities commonly used in the treatment of athletic injuries. The emphasis will be on establishing a theoretical foundation for selecting a treatment protocol for an injury. Prerequisites: AT 1600 and ES 3200. Two hours lecture.

3615. Athletic Injury Assessment II/(2).S.
The student will build on knowledge acquired in AT 3600. In-depth investigation of injury assessment procedures for the vertebral column, upper extremity, abdomen, and thorax will be included. Prerequisites: AT 1600, 3600 and ES 2000. Two hours lecture.

3620. Rehabilitation of Athletic Injuries/(2).F.
Designed for students seeking NATA certification. The course covers the principles of rehabilitation and its physiological effects. Assessment of several aspects of the athlete's rehabilitation. Hands-on practice with equipment, the basics of surgical procedures and criteria for returning an athlete to competition are covered. Prerequisites: AT 1600 and ES 2000. Two hours lecture.

4025. Advanced Athletic Training/(2).S.
A course designed for senior athletic training students addressing selected topics of the profession. Included are materials on sports vision, biomechanics of locomotion, training room management, counseling and education in athletic training. Prerequisites: AT 1600, 3215, 3600, 3610, 3615, 3620, and ES 2000. Two hours lecture.

EXERCISE SCIENCE (ES)

2000. Human Anatomy and Physiology/(5).F;S.
A critical study of the structures and function of the organ systems as they relate to sport science and the allied health professions. Prerequisite: six semester hours of biology or chemistry or physics. Four hours lecture, two hours lab.

2005. Theories of Physical Fitness Programs/(3).S.
Acquaints the student with all aspects of developing and conducting a fitness program within the public sector. An introduction to EKG interpretation, graded exercise testing, lung functions, body composition, and heart disease profiles will be covered. The theory will be followed by application of the above parameters to the purposes, principles and precautions of an exercise program.

3450. Physiological Basis for Exercise Therapy/(3).F.
A study of acute and chronic physiological adaptations to exercise with emphasis on metabolic and cardiorespiratory function. Topics to be covered include the effects of exercise on aging, body composition, environmental stress, and medically related problems. Prerequisites: BIO 1101, CHE 1101, PE 2010.

3550. Kinesiology/(3).F;S;SS.
A study of neuromuscular and mechanical principles of motion as related to the analysis of optimum motor skill performance. Two hours lecture and two hours laboratory. Prerequisite: ES 2000.

4005. Physiological Assessment/(3).F.
Introduction to error theory, validity and reliability theory with an application of the theory to selected physiological measurements of interest to exercise sciences. Computer applications will include exploration and demonstrations of interfacing physiological equipment to acquire data necessary for physiological assessment. Fee. Prerequisites: PE 2020, ES 3450.

4055. Practicum: Physiology of Human Performance/(3-6).F;S.
Laboratory. Students perform all aspects of laboratory tests (graded exercise tests, lung function, body composition, flexibility, coronary heart disease risk identification and exercise prescription) through subject consultation. Graded on S/U basis. Fee. Prerequisite: BIO 3300, 3301; ES 3450, 4005. Admission to exercise science program.

HEALTH PROMOTION (HP)

1105. Health and Fitness/(2).F;S;SS.
Emphasis on health and fitness trends in America, fitness and health testing concepts, exercise prescription, nutrition principles, prevention and treatement of chronic diseases such as heart disease, obesity, cancer, diabetes mellitus, and osteoporosis, the relationship between health habits and aging and psychological health, stress management, and precautions in exercise. Each student will have their health and physical fitness status tested, including results on personal cardiorespiratory, body composition, and musculoskeletal fitness status, and personal diet, heart disease, health age, and stress profiles.

2100. Health Program Planning and Evaluation/(3).F.
Provides an in-depth overview of health program planning and evaluation for all health, promotion settings - community, schools, clinical, and worksite. Specifically, students will learn how to assess individual and community needs for health promotion, plan and implement effective health promotion programs, evaluate the effectiveness of health promotion program, and coordinate the provision of health promotion services.

2200. Lifestyle Disease and Risk Reduction/(3).S.
A review of the major lifestyle diseases (heart disease, cancer, diabetes mellitus, HIV infection, hypertension, etc.) and appropriate screening tests and interventions to reduce risk. Emphasis will be placed on the study and interpretation of the U.S. Preventive Services Task Force guide for clinical preventive services.

2500. Independent Study/(1-4).F;S;SS.

3100. Advanced First Aid and CPR/(3).F;S;SS.
Principles and techniques of emergency first aid including CPR with emphasis also placed on related safety consciousness. American Red Cross certification may be earned. (Same as HED 3100.)

3130. Environmental Health/(3).S.
Study of the application of various principles of environmental sciences and ecology as they relate to the prevention and control of disease, overpopulation, pollution of water, air, land, solid waste and noise. The interdependence of man, the environment, and disease will be stressed.

3200. Health Risk Appraisal/(3).F.
A practical review of major computer software programs and health risk appraisal methods for assessment of stress, health age, dietary quality, and physical fitness. Students will practice over 10 computer software programs during laboratory time, and learn how to measure nutritional status, psychological mood state, and health risk. In addition, students will learn anthropometry and counseling techniques. Two hours lecture and two hours laboratory.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.
Advanced study in selected current health topics. Topics will be chosen on the basis of their impact on the health status of society and on their relevance to students. May be repeated for a maximum of nine (9) hours with no specific topic being taken more than once.

3700. Health Behavior Change/(3).S.
Focuses on the development, implementation, and improvement of interventions and programs targeted at health behaviors. Research and theoretical issues are discussed on a broad range of behaviors - from diet and exercise patterns to safety behaviors. Diverse theoretical perspectives on health behavior are discussed. The personal, family, social, institutional, and cultural determinants of health behavior are considered.

4100. Biostatistics/(2).S.
A study of computational techniques, theoretical frameworks and methodology used in the application, measurement, interpretation and evaluation of statistics in the health sciences. The use of micro and mainframe computers will be explored.

4200. Principles of Epidemiology/(3).S.
An introduction to epidemiology, defined as the study of the distribution and determinants of diseases and injuries in human populations. Emphasis will be placed on descriptive epidemiology, observational studies, and therapeutic trials of both infectious and chronic diseases. Prerequisite: HP 4100.

Senior/Graduate Courses

4660. Human Sexuality and Family Living/(3).F;S;SS.
Information and concepts of sex education including physiological, social, psychological, and moral aspects of human sexuality will be studied. Such topics as dating, marriage, prenatal and postnatal care and interfamily relationships leading to reduction of stress on family members are also to be included. Emphasis will be placed on communication skills. (Same as SW 4660.)

4700. Death and Dying/(3).F;S;SS.
An examination of how dying, death, and grief are experienced, including how support can be given through helping relationships to those who are dying or experiencing bereavement. Consideration will be given to the issues of euthanasia, suicide, body disposition, and rites of passage, the relationship of death to life. Students will have the opportunity to explore personally the meaning of death, other experiences of loss, and the quality of life. (Same as SW 4700.)

4900. Internship/(3-12).F;S;SS.
Students are placed in a variety of health related agencies such as health departments, community action agencies, community mental health centers, educational institutions, wellness programs, hospitals, industrial/business settings, etc. for part or all of a semester or summer, under the direction of the health internship coordinator. The student surveys agency functions, completes a project and writes a final paper under the supervision of a health educator or health related person. Prerequisite: senior standing. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

LEISURE STUDIES (LS)

2110. Introduction to Recreation and Leisure/(3).F;S.
This course consists of an introduction to the concepts of recreation and leisure and a survey of the recreation profession. Included in the course is a history of the leisure and recreation movement, and development of a personal philosophy related to discretionary time and related choices. Prerequisites: None.

2120. Leadership and Group Dynamics in Recreation/(3).F;S.
This course focuses on the study and practice of leadership styles and techniques applied to recreation settings and leisure management situations. Emphasis will be placed on group dynamics as they relate to participants and managers of leisure activities. Prerequisite: None.

2130. Principles of Commercial Recreation/(3).F.
This course is an introduction to the commercial sector of the leisure service industry. Topics covered in this course include: history and economics of commercial recreation and components of commercial recreation management and industry profiles laboratories. Students will complete an in-depth analysis of one commercial recreation industry. Prerequisite: LS 2110.

2210. Principles of Outdoor Recreation/(3).F;S.
Students explore the complexities of supply and demand for outdoor recreation in America. Local, state and federal agencies' roles in outdoor recreation are examined. Prerequisite: none.

2310. Administration of Leisure Services I/(3).F;S.
This is a lecture and seminar course that includes elements of organizational theory and structure, policy development by boards and commissions, personnel policies and manuals, and budgeting and revenue generation in the context of leisure services delivery systems. Prerequisite: LS 2110 or approval of instructor.

2410. Recreation Program Planning/(3).F;S.
This course focuses on the planning of recreation and leisure activities through the use of human and natural resources in public, private, and commercial recreation programs. Principles and approaches to programming will be presented, providing a philosophical and practical basis for preparing a wide variety of leisure programs and activities. Prerequisite: LS 2110 or approval of instructor.

2500. Independent Study/(1-4).F;S;SS.

3110. Development and Maintenance of Recreation Facilities/(3).F;S.
This course consists of an overview of scheduling, staffing, and execution of maintenance and development functions at recreation facilities. Elements of minor construction, grounds maintenance, aquatics management, equipment, and computerized maintenance scheduling are included in the course. Prerequisite: LS 2110 or approval of instructor.

3140. Camp Management/Conference Center Management/(3).S.
This course focuses on the administration of organized camping. The application of management principles to camp/conference centers and their unique program needs will be emphasized. Prerequisite: None.

3151. Rock Climbing, Rappelling and Spelunking/(2).On Demand.
This course provides an opportunity for skill development in beginning and intermediate techniques. Safety procedures will be emphasized in addition to equipment and resources. Lecture and laboratories.

3152. Cross Country Skiing and Cycling/(2). On Demand.
This course provides an opportunity for skill development in beginning and intermediate techniques. Safety procedures will be emphasized in addition to equipment and resources. Lecture and laboratories.

3153. Canoeing and White Water Rafting/(2).On Demand.
This course provides an opportunity for skill development in beginning and intermediate techniques. Safety procedures will be emphasized in addition to equipment and resources. Lecture and laboratoriees.

3154. Expeditioning/(2).On Demand.
This course provides an opportunity to plan and participate in an outdoor expedition. Preparation, participation and evaluation of the expedition will be emphasized. Lecture and laboratories.

3210. Special Populations/(3).F;S.
This course consists of a study of and practical application of principles underlying the provision of recreation services to populations limited in their access to normal recreation programs. The course will focus on individual populations and the respective barriers to participation, the process of program planning and resource development that alter these limitations, and the practical experience of application of a particular plan. Attention will also be devoted to a study of successful community and institutional programs. Prerequisite: LS 2110 or approval of instructor.

3220. Planning and Design of Leisure Facilities/(3).F;S.
This course consists of an integration of site, master, and systems planning with practical design applications. Elements of data collection, site surveying, environmental impact analysis, citizen participation, grantmanship, analysis and synthesis, drafting techniques, and plan reproduction are included in the course. Prerequisites: LS 2110 and 3110, or approval of instructor.

3230. Commercial Recreation Management/(3).S.
This course examines the private-commercial recreation sector. Key concepts include: economic impact studies; feasibility studies; promotion and marketing strategies for commercial recreation business; and resort management techniques. Prerequisites: LS 2110, 2130, and 2310, or approval of instructor.

3315. Career Development in Leisure Services and Recreation/(1).F.
A survey of career opportunities in leisure services and recreation. Students will explore the job market and develop job search skills and abilities. Participants will seek an appropriate internship placement to enhance their professional growth in the field. (This course is a prerequisite for LS 4900 and should be taken the FALL semester preceding the internship.)

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
This course consists of a supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.

3610. Administration of Leisure Services II/(3).S.
This course examines contemporary managerial concepts with application to the various sectors of the leisure service industry. This course focuses on the development of skills necessary to facilitate the achievement of organizational goals and objectives. Prerequisites: LS 2110 and 2310.

3900. Internship I/(1-12).F;S;SS.
This course is a guided, practical, direct leadership experience in a selected, organized recreational setting. A minimum of two hours internship credit is required of minors in recreation. LS 3900 is not required of majors in recreation, but may be taken for elective credit. Graded on S/U basis. Prerequisite: LS 2110 or approval of the instructor.

4110. Evaluation in Recreation and Leisure Service Management/(3).F;S.
This course examines the methods, techniques, and application of evaluation in a variety of functions normally found in recreation and leisure service management including clientele, programs, personnel, facilities organization, administration, and needs assessment. Prerequisites: LS 2110, 2310 and 2410, or approval of instructor.

4140. Outdoor Leadership/(3).F.
This course consists of a dual focus on field leadership of outdoor pursuits and administration of outdoor programs. Topics will include risk manage-

ment, leadership styles, outdoor leadership competencies, experiential education and current issues central to effective outdoor leadership. Prerequisites: None.

4210. Senior Seminar/(2).F;S.
This course focuses on planning for continuing individual, professional activity and growth in the leisure services delivery field. It includes a series of discussions, conferences and role playing experiences related to the various aspects of organized recreation as a career. A review of internships, employment opportunities, ethical conduct and other related topics will be included. Prerequisite: approval of instructor.

4240. Outdoor Leader Apprenticeship/(1). On Demand.
In this course, the student will be assigned to a cooperating outdoor leader as an assistant in all aspects of course management and instruction. Prerequisite: LS 4140.

4550. Travel and Tourism/(3).F.
This course provides an in-depth study of tourism and recreational travel. Topics include the origin, present characteristics, importance to state and federal economies, societal impacts, and implications of non-business travel in the United States; international travel; current issues, and management problems. Prerequisite: approval of instructor.

4560. Leisure and Aging/(3).S.
This course focuses on the leisure needs and characteristics of the senior citizen. Programs and resources designed to service the leisure needs of this population will be examined. Focus will be on program planning and development to meet problems inherent in leisure delivery systems for seniors.

4561. Leisure Service Promotions/(3).F.
Development of the ability to promote and coordinate private and commercial recreation programs, services, resources and activities. Development of the specialized promotions knowledge and skills necessary for managing leisure service businesses. Covers working with print and electronic media. Special emphasis on promotions analysis and services promotion. Prerequisites: LS 2130 and 2310 or permission of instructor.

4600. Ski Area Management Seminar/(3).S.
This course focuses on the planning and management of alpine ski areas. Frequent field trips to ski areas will be required. Prerequisite: beginning skiing or equivalent.

4650. Outdoor Recreation Management/ (3).S.
This course is a study of outdoor recreation management processes, recreation resource management, visitor management, management of intensive-use sites, management of dispersed recreation areas, and special contemporary management problems. Prerequisite: LS 2210 or approval of instructor.

4900. Internship II/(1-12).F;S;SS.
A guided, practical, direct leadership experience at a supervisory level with an appropriate organization. A minimum of eight hours internship credit is required of majors. For a summer internship, not less than six hours credit will be approved for registration. Graded on S/U basis. Prerequisites: LS 2110, 2310, 2410, 3110, and 3315, or by approval of the instructor.

Physical education—general education (activity courses) (PE)

All students are required to elect two semester hours of activity courses (numbered 1000 to 1082). Nonswimmers are urged to take PE 1000. Courses need not be taken in any particular sequence. The primary aim will be the attainment of knowledge and understanding of skills for the enjoyment of lifetime physical activity. The physical education activity courses will provide opportunities for skill analysis, skill acquisition and physical fitness development through skill participation which will afford healthful experiences for both the present and the future.

Physical education attire is furnished and laundered by the University for campus activity. Students furnish their own athletic socks, rubber-soled shoes, jackets, and swimming suits. Towel service is provided.

Physical education attire must be turned in after the last period a class is required to "dress out". A FINE OF $10 WILL BE ASSESSED FOR TURNING IN ATTIRE LATE.

The following activity courses (numbered 1000-1082) are open to all students to fulfill the general education requirements of two semester hours of physical education and for those electing to take more than the minimum. Physical Education Majors must take Physical Education Activity Cores: 1100-1101 and 1200-1201.

Aquatics Courses

1000 through 1005 are graded on an S/U basis.

1000. Swimming for Nonswimmers (1).F;S.
1002. Beginning Swimming (1).F;S.
1003. Intermediate Swimming (1).F;S.
1005. Open Water Scuba Diving (Fee charged) (1).F;S.

Developmental Courses

1010 through 1016 are graded on an S/U basis.

1010. Physical Education for the Disabled. On Demand. (1).
1011. Lifestyles (1).F;S.
1013. Jogging/Conditioning (1).F;S.
1014. Weight Training (1).F;S.
1016. Self-Defense (1).F;S.

Individual/Dual Sports Courses

1018 through 1059 are graded on an S/U basis.

1018. Racquetball (1).F;S;SS.
1024. Handball (1).F;S.
1025. Badminton (1).F;S.
1026. Recreation Dance (1).F;S.
1027. Beginning Tennis (1).F;S;SS.
1028. Modern Dance (1).F;S.
1029. Intermediate Tennis (1).F;S.
1030. Fencing (1).F;S.
1031. Squash (1).F;S.
1032. Gymnastics (1).F;S.
1038. Archery (1).F;S.
1044. Beginning Skiing (Fee charged) (1).S.
1046. Intermediate Skiing (Fee charged) (1).S.
1047. Cross Country Skiing and Snowshoeing (Fee charged) (1).S.
1049. Backpacking/Orienteering (1).F;S.
1050. Bowling (Fee charged) (1).F;S.
1055. Horsemanship (Fee charged) (1).F;S.
1057. Canoeing (1).F;S.
1058. Marksmanship (1).F;S.
1059. Ice Skating (Fee charged) (1).F;S.

Team Sports

1071 through 1082 are graded on an S/U basis.

1071. Softball/Basketball (1).F;S.
1074. Soccer (1).F;S.
1076. Volleyball (1).F;S.
1080. Field Hockey (1).F.
1082. European Team Handball (1).F;S.

Physical education majors activity cores (PE)

The following courses will be graded according to the regular grading scale (A-F):

1100. Core A—Fundamental Movement, Weight Training/Conditioning and Swimming/(1).F;S.
Fundamental movement, weight training/conditioning and swimming; for physical education majors only. Three hours laboratory. Pre-or corequisite: PE 1550.

1101. Core B—Tumbling, Gymnastics and Track and Field/(1).S.
Tumbling, gymnastics and track and field; for physical education majors only. Three hours laboratory. Pre or corequisite: PE 1100.

1102. Field Hockey, Basketball and Aerobic Dance/Weight Training/(1).F.
Field hockey, basketball and aerobic dance/weight training; for physical education majors only. This four part course is designed to familiarize the physical education major with specific basic skills, strategies and rules of these activities.

1103. Soccer, Tumbling and Gymnastics/(1).S.
Soccer, tumbling and gymnastics; for physical education majors only. This three part course is designed to familiarize the physical education major with specific basic skills, strategies and rules of these activities.

1200. Core C—Field Hockey, Tennis, Basketball/(1).F.
Field hockey, tennis, and basketball; for physical education majors only. Three hours laboratory. Pre-or corequisite: PE 1100.

1201. Core D—Modern Dance, Volleyball and Soccer/(1).S.
Modern dance, volleyball and soccer; for physical education majors only. Three hours laboratory. Pre-or corequisite: PE 1100.

1202. Tennis, Volleyball and Flag Football/(1).F.
Tennis, volleyball and flag football; for physical education majors only. This three part course is designed to familiarize the physical education major with specific basic skills, strategies and rules of these activities.

1203. Dance, Badminton and Track/Field/(1).S.
Dance, badminton and track/field; for physical education majors only. This three part course is designed to familiarize the physical education major with specific basic skills, strategies and rules of these activities.

Physical education professional courses

The following physical education professional courses (numbered 1400-4570) are open to physical education majors and as electives to all students. These courses may NOT be used to fulfill the general education requirement of two semester hours for physical education.

1501. Officiating Volleyball, Football and Soccer/(3).F.
A study of the rules and rule interpretations of volleyball, football and soccer with emphasis on the proper techniques of officiating. Two hours lecture; two hours lab (a minimum of 32 hours lab per semester without pay and with supervision.)

1502. Officiating Basketball, Softball, Baseball, Track and Field/(3).S.
A study of the rules and rule interpretations of basketball, softball, baseball, track and field with emphasis on the proper techniques of officiating. Two hours lecture; two hours lab (a maximum of 32 hours lab per semester without pay and with supervision.)

1530-1549. Selected Topics/(1).On Demand.

1550. Introduction to Principles and Philosophy of Physical Education/(2).F;S.
A course to orient beginning majors by introducing them to the foundations, principles, and philosophies of physical education with a consideration of professional opportunities and evaluation of the competencies needed by a physical education major. A minimum grade of "C" (2.0) is required to be admitted to the physical education major program. Two hours lecture, one hour laboratory.

1590. Advanced Life Saving and Water Safety/(2).F;S.
A course designed to provide an opportunity for an individual to acquire the skills and knowledge necessary to save his own life or the life of another in the event of an emergency while in, on or about the water. American Red Cross requirements. Prerequisite: PE 1003 or equivalent. One hour lecture, two hours laboratory.

2001. Physiological Kinesiology/(3).F;S.
Anatomy, physiology and kinesiology relevant to teaching and evaluation of skill performance. Three hours lecture; two hours laboratory.

2002. Motor Skill Learning/(3).F;S.
This course is a lecture/discussion course which will focus on the basic principles in the learning and control of motor skills and recent theories of how movements are acquired and performed.

2010. Physiology of Muscular Activity/(3).S;SS.
A study of the physiological principles as applied to muscular activity and the effects of muscular activity on the human organism. Two hours lecture and two hours laboratory. Prerequisite: ES 2000. Two hours lecture, two hours lab.

2015. Curriculum and Administration in Sport Pedagogy/(3).F;S.
Curriculum planning, curriculum theories and models and administration application. Curriculum development will be emphasized including unit and lesson plans. Administration will cover budgeting, facilities, liability and public relation. A team approach with lecture and practical experiences.

2020. Measurement and Evaluation in Physical Education/(3).F;S;SS.
A theory and methods course in the meaning and application of measurement, tests, elementary statistical procedures and evaluation in physical education. Two hours laboratory and two hours lecture. Prerequisite: MAT 1020 or higher.

2500. Independent Study/(1-4).F;S;SS.

2556. The Child: Implications for Elementary Physical Education/(3).F;S;SS.
A course focusing on children and how they learn in the context of movement experiences. Three hours lecture.

2560. Physical Education, Sport, and Civilization/(3).F;S.
A survey of the development of world civilization as influenced by sport and physical education; to include a study of historical backgrounds, systems, organizations, leaders, movements, concepts and socio-cultural processes. Three hours lecture. Prerequisites: HIS 1101-1102 or equivalent sequence.

3000. Theories and Concepts of Team Sports/(3).F;S.
This course will focus on the teaching of team sports rather than on coaching or skills acquisition. So that the theoretical concepts can be understood and applied, it will be taken toward the end of one's course of study. Direct teaching experiences will be provided utilizing students of secondary age or older. An apprenticeship experience will be required in a minimum of two of the acitvities covered in the course - basketball, field hockey, flag football, soccer, softball, team handball and/or volleyball. The

course will conclude in a seminar fashion in order to relate theoretical concepts and practical experiences. Two hours lecture, two hours laboratory.

3001. Theories and Concepts of Individual and Lifetime Sports/(3).F;S.
This course will focus on the teaching of individual and lifetime sports rather than on coaching or skills acquisition. So that the theoretical concepts can be understood and applied, it will be taken toward the end of one's course of study. Direct teaching experiences will be provided utilizing students of secondary age or older. An apprenticeship experience will be required in a minimum of two of the activities covered in the course - weight training, jogging, aerobics, conditioning, tennis, badminton, ghmnastics, tumbling and safety in individual and lifetime sports. The course will conclude in a seminar fashion in order to relate theoretical concepts and practical experiences. Two hours lecture, two hours laboratory.

3002. Motor Development/(3).F;S.
Fundamental motor skills from childhood to old age with emphasis on the motor skill stages of development. Three hours lecture.

3010. Games for Children/(2).Offered every third semester.
A study and application of the movement themes which provide the games content for elementary school physical education focusing on the movement approach. One hour lecture and two hours laboratory. Prerequisite: PE 2556 or 3556.

3011. Games, Gymnastics and Dance for Children/(3).F;S.
A study and application of the movement themes which provide the scope of content for an elementary school physical education program.

3020. Gymnastics for Children/(2).Offered every third semester.
A study and application of the movement themes which provide the gymnastics content for elementary school physical education, focusing on the movement approach. One hour lecture and two hours laboratory. Prerequisite: PE 2556 or 3556.

3021. Observation and Teacher Behavior for Sport Pedagogy in the Elementary School/(3).F;S.
A study of the scope of teaching, designing and evaluating movement experiences for elementary school physical education, with a focus on the process of systematic observation.

3030. Dance for Children/(2).Offered every third semester.
A study and application of the movement themes which provide the dance content for elementary school physical education, focusing on the movement approach. One hour lecture and two hours laboratory. Prerequisite: PE 2556 or 3556.

Skill and technique courses (3072 through 3099)

Each course will emphasize the correct movement patterns and conditioning necessary for efficient performance and will encourage the prospective teacher* to integrate teaching strategies into lessor organization and planning. Each future teacher will be requested to demonstrate proficiency in the teaching process related to selected aspects of each course. The skills and techniques courses are designed to guide the prospective teacher to select activities based upon growth maturation levels for preschool, elementary, junior high, secondary and college students. The prospective teacher will apply basic anatomical, physiological, kinesiological, and socio-psychological concepts as related to analysis, and evaluation of motor performance. When applicable, the future teacher will also synthesize the principles relevant to the construction, selection, purchase, and maintenance of facilities, equipment, and supplies.

When applicable, the student is to complete the appropriate physical education majors activity core prior to the corresponding skill and technique course. For example, PE 1200 is prerequisite to PE 3072. For the student in the athletic coaching minor or the junior transfer student majoring in physical education, the appropriate fundamental movements and sports skills part is pre/corequisite to the corresponding skill and technique course.

Each skills and techniques course will further permit the prospective teacher to judge the appropriateness of measurement procedures and evaluation tools devised to meet the individual needs of the future student.

*Teaching is considered to be synonymous with coaching—coaching is teaching.

CORE I.

Individual and dual skills and techniques (physical education majors must complete four-five semester hours).

3072. Tennis (2).F;S;SS.
Two hours lecture, one hour lab.

3073. Dance (2).F;S.
Two hours lecture, one hour lab. (Same as TD 3073.)

3075. Wrestling (2).F.
Two hours lecture, one hour lab.

3076. Track and Field (2).F;S.
Two hours lecture, one hour lab.

3077. Conditioning and Safety (2).F;S.
Two hours lecture, one hour lab.

3078. Gymnastics (3).F;S.
Meets 250 minutes per week

CORE II.

Team sports skills and rechniques (physical education majors must complete four semester hours).

3080. Volleyball (2).F;S.
Two hours lecture, one hour lab.

3081. Field Hockey (2).F.
Two hours lecture, one hour lab.

3083. Basketball (2).F;S.
Two hours lecture, one hour lab.

3084. Football (2).F;S.
Two hours lecture, one hour lab.

3085. Soccer (2).F;S.
Two hours lecture, one hour lab.

3087. Softball and Baseball (2).F;S;SS.
Two hours lecture, one hour lab.

CORE III.

Recreational sport skills and techniques (physical education majors must complete two semester hours).

3090. Aquatics/Water Safety Instructor/(2).F;S;SS.
Two hours lecture, one hour lab. Prerequisite PE 1590 or equivalent. May be taken for American National Red Cross certification.

3092. Skiing (2).S.
Intermediate skiing ability required. Includes teaching skiing and ski patrolling.

3093. Badminton, Handball and Racquetball (2).F;S.
Two hours lecture, one hour lab.

3096. Selected Recreation Activities (1).S.
Includes cycling, table tennis, shuffleboard, horseshoes, deck tennis. One hour lecture, one hour lab.

3099. Golf and Archery (2).F;S.
Two hours lecture, one hour lab.

Physical education professional courses (PE) (continued)

3500. Independent Study/(1-4).F;S;SS.

3510. Organization and Administration/(2).F;S;SS.
The organization, administration, supervision, planning, budgeting, and evaluation of programs on various levels, including: use of facilities, maintenance, purchasing, insurance, varsity and intramural programs, leagues and tournaments, and public relations.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.

3556. How Children Move: Implications for Elementary Education/(2).F;S;SS.
An overview of movement experiences in games and dance focusing on the teaching of children K-8. One hour lecture, two hours lab.

3560. The Process of Observing Children in Movement Experiences/(2).Offered every third semester.
A study and practical application of the tool of observation based on knowledge of the child, motor development, and movement content. Two hours lecture, one hour laboratory. Prerequisite: PE 2556 or 3556.

3580. Apprenticeship/(1).F;S;SS.
A practical experience in the teaching of physical education activities under direct supervision. REQUIRED PRIOR TO STUDENT TEACHING. The apprenticeship should be done in an activity in which the student has had the corresponding course from the physical education majors activity cores or fundamental movements and sports and skills parts or skill and technique course. Pre/corequisite: ES 3550. Two hours laboratory with periodic seminars. (S/U) May be repeated.

4000. Adapted Physical Education and Recreation/(3).F;S;SS.
A survey of abnormalities and atypical cases; identification, with preventive, corrective and rehabilitative techniques and activities. Two hours lecture and three hours laboratory. Prerequisites: PE 2001, 2010, 2556, or by permission of instructor.

4002. Psychological Aspects of Sport/(3).F;S.
A view of the influence of social forces and psychological factors affecting the individual's performance in sport.

4050. Determining Teaching Styles Appropriate for Elementary School Physical Education/(3).Offered every third semester.
Study of the effective techniques of teaching, designing, and evaluating movement experiences for elementary school age children. Three hours lecture. Prerequisite: PE 2556 or 3556.

4060. Developing a Physical Education Curriculum/(3).Offered every third semester.
A study of the significance of physical education and its role in a school curriculum. Three hours lecture. Prerequisite: PE 2556.

Senior/Graduate Courses

4551. Program Development in Adapted Physical Education/(3).F;SS.On Demand.
This course is concerned with the development of appropriate physical education programs for handicapped children and adults. The course will include curriculum development. Inservice training, IEP development, legislative concerns, and evaluative techniques.

4552. Methods and Curriculum in Adapted Physical Education/(3).S;SS.On Demand.
This course is designed to address state-of-the-art techniques and methods used in the implementation of appropriate physical education programs for handicapped children and adults. Students will be required to apply classroom knowledge to a practicum setting with children and adults.

4580. Workshop/(2).On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

DRIVER AND TRAFFIC SAFETY EDUCATION (TSE)

2200. Introduction to Driver Education/(3).F;S.
Introductory course to prepare teachers of driver education. Classroom and laboratory instruction in driver education is presented in a correlated and integrated manner to increase the knowledge and skill of the driver education teacher. Driving skills and abilities of future teachers are evaluated.

2500. Independent Study/(1-4).F;S;SS.

3200. Safety Education/(3).S.
A study of the broad area of safety content, techniques, and programs and their relationship to the school safety program. Examination of OSHA and selected areas of industrial safety.

3210. Traffic Safety/(3).S.
An in-depth study of the content, methods, techniques, and materials in behind-the-wheel instruction in driver education. In-car teaching experience provided. Prerequisite: TSE 2200 or permission of instructor, valid driver's license.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.

3750. Recreational Vehicles/(3).On Demand.
Safety, the functions, handling, and operational characteristics of various recreational vehicles will be provided with laboratory experience in the operation of these vehicles and their special equipment. Prerequisite: valid driver's license.

3900. Internship/(3-12).F;S;SS.
The student will be assigned to an educational institution, safety, or traffic-related organization to gain in-depth experience in various areas of safety. The student will provide a written report on the experiences and will participate in several seminars, small group, and/or individual conferences, related to these experiences. Graded on S/U basis.

4200. Transportation Systems/(3).F.
An overview of the broad area of transportation systems with emphasis on the highway transportation system. The basic characteristics and functions of traffic engineering applicable to driver and traffic safety education are considered.

4210. Laboratory Programs in Driver Education/(4).F.
A study of the content, methods, techniques, and materials in simulation and off-street multiple-care

driving range instruction. Simulation and range teaching experience provided. Prerequisite: TSE 3210 or permission of instructor.

Senior/Graduate Courses

4750. Administering the School Safety and Driver Education Programs/(3).S.
Administrative and supervisory aspects of the driver and safety education programs at the local, state, and national level. Includes federal programs in driver and safety education. Prerequisites: TSE 4210 or permission of instructor, junior standing or higher.

4800. Emergency Medical Technician Training/(3-6).F;S.
The Department of Transportation's Emergency Medical Technician curriculum is presented in an individualized competency based module format. Hospital emergency room experience is required. Other experiences may include: Basic rescue techniques, extrication, field experience in ambulances, communication, and emergency vehicle operation. Eight hours laboratory.

Department of Home Economics (HEC)

Sammie G. Garner, Chairperson

Home economics is concerned with food quality, safety and adequacy; nutrition and diet; consumer welfare and safety; child care and development; family economics and management; clothing; shelter; and other issues related to individual and family well-being. The Department of Home Economics is accredited by the American Home Economics Association.

Undergraduate degree programs leading to the B.S. Degree include the following:

- Child development:
  - Home economics concentration
  - Psychology concentration
- Clothing and textiles
- Foods and nutrition
  - Foods and nutrition, general concentration
  - Food systems management concentration
- Home economics education (teaching certification)
- Housing and interiors

The foods and nutrition, general concentration is approved by the American Dietetic Association. Upon graduation the student is qualified for an internship or traineeship in an accredited hospital or other acceptable institutions, thus becoming eligible for ADA membership and Registered Dietitian status. The teacher education program is accredited by NCATE and meets the North Carolina Department of Public Instruction standards for teaching certification.

A common core of subjects in liberal education, as well as home economics, is required of all majors. The general education curriculum is designed to provide instruction in the natural and social sciences, the arts and humanities, and in general home economics areas. In all programs, families and families as consumers are the primary foci. The curriculum, based on the general education studies, relates basic knowledge to an understanding of familial needs with regard to food, clothing, housing, management of resources and human

interactions and relationships. The program offers educational preparation for professional careers, entry into continuing education programs and graduate study.

The Lucy Brock Child Development Center and Early Learning Center serve as laboratories for home economics majors and child development students and are accredited by the National Association for the Education of Young Children. They also provide observational opportunities for students enrolled in courses in other departments.

Home management residence is offered each semester and is a requirement for home economics education and housing and interiors majors. The residence course may be elected by majors in other home economics areas when space is available.

Minors in home economics

Students not majoring in the Department of Home Economics may earn one of the five minors listed below by the completion of the prescribed 17-19 hours.

1. Clothing and textiles

HEC 1000	Clothing and Consumer Behavior	3 s.h.
HEC 2000	Consumer Textiles	3 s.h.

Plus four of the following: (12 s.h.)

HEC 2001	Clothing Construction	3 s.h.
HEC 3001	Flat Pattern Design	3 s.h.
HEC 3002	Apparel Design and Production	3 s.h.
HEC 3003	Fashion Merchandising	3 s.h.
HEC 4000	Textiles Merchandising: Apparel and Furnishings	3 s.h.
HEC 4002	Merchandise Display and Promotion	3 s.h.
HEC 4003	Fashion Buying and Merchandising	3 s.h.

TOTAL of 18 s.h.

2. Child development

HEC 1100	Development and Relationships: Conception Through Middle Years	3 s.h.
HEC 2103	Family Development Over the Life Cycle	3 s.h.
HEC 3101	Enriching Experiences for Young Children	3 s.h.
HEC 4100	Administration of Preschool Programs	3 s.h.

Plus two of the following: (5-6 s.h.)

HEC 2101	Infancy	3 s.h.
HEC 2201	Foods and Nutrition for Children	2 s.h.
HEC 4551	Families in Later Life	3 s.h.

TOTAL of 17-18 s.h.

3. Housing and interiors

HEC 1300	Housing and Man	3 s.h.
HEC 2000	Consumer Textiles	3 s.h.
HEC 2300	Furnishings and Interiors	3 s.h.
HEC 3300	Living Space: Planning and Design	3 s.h.

and either:

HEC 4310	Residential Interior Design	3 s.h.
OR		
HEC 4320	Contract Interior Design	3 s.h.

Plus one of the following: (2-4 s.h.)

HEC 4310	Residential Interior Design	3 s.h.
OR		
HEC 4320	Contract Interior Design	3 s.h.
HEC 2350	Equipment For the Home	2 s.h.
HEC 3310	Housing, Furnishings and Equipment, Needs of Children, The Elderly and Handicapped	3 s.h.
HEC 4315	Habitats and Public Policy	3 s.h.
HEC 4350	Management Within the Home	4 s.h.

TOTAL of 17-19 s.h.

4. Foods and nutrition

HEC 1202	Meal Management in Introductory Foods	3 s.h.
HEC 2202	Nutrition and Man	3 s.h.
HEC 2203	Organization and Management in Food Service	3 s.h.
OR		
HEC 2204	Advanced Foods	3 s.h.
HEC 3205	Nutrition and the Life Cycle	3 s.h.

Plus two of the following: (6 s.h.)

HEC 2203	Organization and Management in Food Service	3 s.h.
OR		
HEC 2204	Advanced Foods	3 s.h.
HEC 3202	Quantity Food Production I	3 s.h.
HEC 3204	Quantity Food Production II	3 s.h.
HEC 4202	Experimental Food Study	3 s.h.
HEC 4540	Nutrition and Metabolism	3 s.h.

TOTAL of 18 s.h.

5. Home economics (general)

HEC 1000	Clothing and Consumer Behavior	3 s.h.
OR		
HEC 2000	Consumer Textiles	3 s.h.
HEC 1100	Development and Relationships: Conception Through Middle Years	3 s.h.
OR		
HEC 2103	Family Development Over the Life Cycle	3 s.h.
HEC 1202	Meal Management in Introductory Foods	3 s.h.
OR		

HEC 2202	Nutrition and Man	3 s.h.
HEC 1300	Housing and Man	3 s.h.
HEC 2600	Family Economics	3 s.h.
Plus one home economics elective		2-3 s.h.
TOTAL of 17-18 s.h.		

Students majoring in home economics (with the exception of child development majors) are required to make a grade of "C-" (1.7), or better in all home economics courses. Courses stipulated as prerequisites for subsequent home economics courses must be completed with a "C-" or higher before a student may continue on to the next level of coursework.

Child development: Departments of Home Economics and Psychology cooperate to offer the B.S. degree in child development conferred by the Department of Home Economics upon the completion of the required 21 semester hours multidisciplinary core curriculum (HEC 2201, 3101 and 4100; and PSY 2205 and 3303; and 7 s.h. approved by departmental advisor) and courses in one of the two areas of concentration: home economics or psychology.

The home economics concentration includes 21 semester hours of core requirements (HEC 2201, 3101, and 4100; PSY 2205 and 3303; and 7 s.h. approved by departmental advisor), and 35-41 semester hours of major requirements: HEC 1000, 1100, 1202, 1300, 1400, 2101, 2103, 2202, 2600, 4400, 4551, and 4900 (6-12 s.h.); and HED 3100.

In addition, the following general education courses are required: PSY 1200; BIO 1101 and 1102; HIS 1101 and 1102; and SOC 1000.

Clothing and textiles: A Bachelor of Science degree in clothing and textiles consists of 56-62 semester hours in home economics/1000, 1100, 1202, 1300, 1400, 2000, 2001, 2103, 2202, 2300, 2600, 3001, 3002, 3003, 4000, 4002, 4003, 4400, and 4900 (6-12 s.h.); and 11 semester hours in the following related areas: ART 1001 or 1011 and 2008; MGT 3010; and COM 1100. The student should also complete PSY 1200 as part of the general education format to meet departmental requirements. A minor in general business or marketing (18 s.h.) is required.

Foods and nutrition (general concentration): A Bachelor of Science degree in foods and nutrition with a concentration in foods and nutrition, general consists of 51-57 semester hours in home economics 1000, 1202, 1300, 1400, 2103, 2202, 2203, 2204, 2600, 3202, 3204, 3205, 4200, 4202, 4203, 4205, 4400, 4900 (6-12 s.h.); 29 semester hours in the following science courses: BIO 1110, and 3308; CHE 1101-1102, 2201, and CHE 4580-4581; ES 2000; and 14 semester hours in the following related courses: ACC 2100; PSY 3302; ANT 1215 or SOC 1000; CS 1410 or STT 3810; and COM 1100. The student should also complete PSY 1200 and ECO 2030 as part of the general education format. No minor required.

Foods and nutrition [food systems management concentration]: A Bachelor of Science degree in foods and nutrition with a concentration in food systems management consists of 39-45 semester hours in home economics: HEC 1000, 1202, 1300, 1400, 2103, 2202,

2203, 2204, 3202, 3204, 3205, 4205, 4400, and 4900 (6-12 s.h.); 10 semester hours of other related courses which include BIO 3308 and two of the following six courses: HEC 3320, HOS 2000, 3700, 3800, 3930, and LS 4110; 14 semester hours in the following natural science courses: BIO 1101 and 1102, CHE 1101 and 1102. The student should also complete PSY 1200 and ECO 2030 as part of the general education format. In addition, nine semester hours of other elective courses (2000 level and above) from home economics, business, or computer science deemed relative by the student and with advisor approval must be selected. A minor in general business is required; it includes MGT 3010, MKT 3010, FIR 3010, and ACC 2100; plus one of the following courses: ECO 2040, 2100, ACC 2110, FIR 2150, CIS 2660, MGT 3020 or 3030.

Home economics education: A Bachelor of Science degree in home economics with teacher certification consists of the following: 6-8 s.h. of a science sequence in chemistry or biology and ECO 2030 for general education; FDN 3100, 3800, CI 2800, 3131, 4900, PSY 3301, 3302, RE 4630 and COM 1100 in Professional Education; and a concentration in one of the following areas:

Consumer and homemaking education—57 semester hours which consists of HEC 1000, 1100, 1202, 1300, 1400, 2000, 2001, 2103, 2202, 2300, 2350, 2600, 2700, 3901, 4350, 4400, 4609, 4701, and 6 s.h. home economics electives, and ART 1011.

OR

*Child care services—56 semester hours which consists of HEC 1000, 1100, 1202, 1300, 1400, 2101, 2103, 2201, 2202, 2600, 2700, 3101, 3901, 4100, 4400, 4609, 4701, and 6 s.h. home economics electives, ART 1011, and HED 3100.

OR

*Clothing services—54 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2000, 2001, 2202, 2700, 3001, 3002, 3003, 3901, 4400, 4609, 4701, and 6 s.h. home economics electives, ART 1011, and MGT 3010 or MKT 3010.

OR

*Food services—56 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2202, 2203, 2204, 2600, 2700, 3202, 3204, 3901, 4205, 4350 (residence in home management house mandatory), 4400, 4609, 4701, and 6 s.h. home economics electives, and ART 1011.

OR

*Home furnishings services—57 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2000, 2202, 2300, 2600, 2700, 3300, 3901, 4000, 4307, 4310, 4400, 4609, 4701, and 6 s.h. home economics electives, and ART 1011.

OR

*Human services—57 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2000, 2202, 2204, 2350, 2600, 2700, 3901, 4350 (residence in home management house mandatory), 4400, 4551, 4609, 4701, and 6 s.h. home economics electives, ART 1011, and HED 3100.

*To receive certification in any of the occupational concentrations, a student must complete 2000 hours of work experience. However, this is not required for graduation.

In addition to the above, all students must complete proficiencies in speech, reading, and English, be admitted to the College of Education, and take both the core battery (all three parts) and the speciality area of the National Teachers Examination (NTE).

Housing and interiors: A Bachelor of Science degree in housing and interiors consists of 59-65 semester hours in home economics/1000, 1100, 1202, 1300, 1400, 2000, 2103, 2202, 2300, 2350, 2600, 3300, 3310, 4000, 4310, 4315, 4320, 4350 (residence in home management house mandatory), 4400, and 4900 (6-12 s.h.); and 11 semester hours in the following related courses; ART 1011 and 1012 or ART 1001 and 1002 (by portfolio review), MKT 3010, and COM 2600. The student should also complete ECO 2030, and either PSY 1200 or SOC 1000 as part of the general education format to meet departmental requirements. A required minor for this degree could be communication arts, industrial technology, sociology, art, general business, marketing, or related area depending on the interests of the student.

The Department of Home Economics offers a Master of Arts degree in home economics. Persons interested in this degree are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in home economics (HEC)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1000. Clothing and Consumer Behavior/(3).F;S.
An introductory study of the nature and importance of life styles; communication, economics, psychology, sociology, design and concepts of manufacturing, marketing and retailing as factors which influence consumer acceptance and utilization of fashions. Lecture three hours.

1100. Development and Relationships: Conception through Middle Years/(3).F;S.
A study of the development of children from conception through middle school age, incorporating the psycho-social, physical and cognitive components of development and relationships. Lecture two hours, laboratory two hours.

1202. Meal Management in Introductory Foods/(3).F;S.
Integration of the introduction of food study, with emphases on the scientific principles involved in the identification and conservation of nutrients into a meal management format. Lecture two hours, laboratory two hours.

1300. Housing and Man/(3).F;S.
Introductory study of the nature of man's relationship to his spatial environment. An historical and international overview leading to an understanding of the present conditions of contemporary housing. Study and discussion of physiological, psychological, social and economic aspects of housing needs as well as the dynamics and components of construction. Exploration of the consumer's energy source and housing alternatives. Lecture three hours.

1400. Professional Orientation/(1).F;S.
Factors and personalities influencing the history of home economics; present status of the discipline, future responsibilities and career opportunities. Lecture one hour. Required for all home economics majors.

2000. Consumer Textiles/(3).F;S.
Consideration of textile fibers and fabrics from the viewpoint of the consumer. Factors related to raw materials, comparative quality, serviceability and cost of textiles used in apparel and home furnishings. Lecture two hours, laboratory two hours.

2001. Clothing Construction/(3).F;S.
Theories and principles of garment design and structure in relation to figure types and posture, including their application in construction and fit of apparel for men and women. Prerequisite: HEC 2000. Laboratory six hours.

2101. Infancy/(3).F.
Basic concepts, principles and theories of infant development and relationships. Review of research of infant programs. Assessment of and involvement in infant-toddler programs. Lecture two hours; laboratory two hours.

2103. Family Development Over the Life Cycle/(3).F;S.
A study, using the life span approach, of factors affecting individual and family development. Theories, patterns, structures and function of diverse family groupings and interactions/relationships in family processes and development will be considered in relation to current research. Lecture three hours.

2201. Foods and Nutrition for Children/(2).S.
A study of relationships between nutrition and emotional, mental and physical well-being of infants and children. Diet planning, food preparation, food purchasing, storage, sanitation and safety standards in child development programs. Lecture one hour; laboratory two hours.

2202. Nutrition and Man/(3).F;S.
A study of the nutrients required by humans for normal physiological function with emphasis on nutrient requirements, sources, digestion, absorption, metabolism, and functions. Consideration of contemporary nutritional issues to include: overweight; malnutrition; health; natural and organic foodstuffs; athletics' diets; and nutrient requirements throughout life. Emphasis on nutrition consumerism. Lecture three hours.

2203. Organization and Management in Food Service/(3).F.
Factors involved in business policies, organization theory, and principles of management applicable to food service institutions. Administrative development including management experience; job analysis, and evaluation; salary and wage structure; employee benefits; personnel selection and employment practices including allocation of labor. Exposure to major leadership-styles, effective communication management functions, employee motivation, formal-informal work groups, organizational charts, business social responsibility, and management in the future in food institutions. Lecture three hours.

2204. Advanced Foods/(3).F;S.
Aesthetics of food as related to catered events and family meals; advanced meal management considerations; application of scientific principles in distinctive cuisine; marketing applications in food service; sanitation and safety considerations. Lecture one hour, laboratory four hours. Prerequisite: HEC 1202.

2300. Furnishings and Interiors/(3).F;S.
A study of furnishings, material, and accessories for individual and family living space. Prerequisites: HEC 1300, 2000. Lecture two hours, laboratory two hours.

2350. Equipment For The Home/(2).F;S.
A study of equipment in relation to production, selection, arrangement, and use for home living. Lecture one hour, laboratory two hours.

2500. Independent Study/(1-4).F;S.

2600. Family Economics/(3).F;S.
A study of the management of human and material resources designed to develop competence as consumers of goods and services in a modern economic society. Lecture three hours.

2700. Orientation to Teaching Home Economics/(1).S.
Survey of N.C. program of studies in home economics, establishment of teaching files, and a ten-day observation of a home economics program in a school. Participation of student optional with cooperating teachers.

3001. Flat Pattern Design/(3).F;S.
The use of commercial basic patterns in developing slopers for use in designing garments in relation to figure problems and current fashion trends. Prerequisite: HEC 2001. Lecture one hour, laboratory four hours.

3002. Apparel Design and Production/(3).S.
Interrelationship of historic costume, textile materials, design and fashion drawing and illustration as tools of apparel design and production. A study of apparel design and manufacturing processes. Lecture two hours, laboratory two hours.

3003. Fashion Merchandising/(3).S.
Fashion fundamentals applicable to merchandising. Emphasis on the study of materials used in fashion merchandise. Lecture three hours. Prerequisite: HEC 2000.

3101. Enriching Experiences for Young Children/(3).F.
Planning, developing and evaluating creative activities to meet the total needs of young children in preschool programs. Lecture two hours; laboratory two hours.

3202. Quantity Food Production I/(3).F.
Application of food preparation principles to quantity production, menu planning, use and care of institutional equipment, standardized recipes, and service to the public. Lecture one hour, laboratory four

hours. Prerequisite: HEC 2203 or permission from instructor.

3204. Quantity Food Production II/(3).S.
In-depth study and practice in planning, preparing, and service of food in institutions such as school foodservice, commercial restaurants, fastfood operations, hospitals, and college feeding facilities. Emphasis on food service purchasing to involve principles and practices. Lecture one hour, laboratory four hours. Prerequisite: HEC 3202.

3205. Nutrition and the Life Cycle/(3).S.
The study of nutritional needs and concerns in the various physiological ages of humanity. Application of the principles of nutrition to pregnancy, lactation, infancy, pre-school and school age years, adolescence, adulthood, and later maturity with discussions of nutrition services and programs available. Lecture three hours. Prerequisite: HEC 2202 and biology recommended.

3300. Living Space: Planning and Design/(3).F.
Communicating effectively on the professional level ideas and designs of intelligently planned space. Includes a mastery of drafting techniques and equipment, a firm knowledge of construction techniques and procedures, and site and structure planning with regard to terrain, orientation and energy conservation. Culminates in the execution of a full set of working drawings which includes foundation, floor, elevation, detail, and wiring plans. Laboratory six hours. Prerequisites: HEC 1300 and 2300 or permission from instructor.

3310. Housing, Furnishings, and Equipment Needs of Children, the Elderly, and Handicapped/(3).On Demand.
A study of the special housing, furnishings, and equipment needs of children, the elderly, and the handicapped. Emphasis is on the assesment of thee needs and the design or alteration of housing, furnishings and equipment necessary to promote satisfying and worthwhile living. Lecture two hours, laboratory two hours. Prerequisite: HEC 1300, 2300, 3300, or consent of instructor.

3320. Facilities Design and Maintenance/(3).F.
The purpose of this course is to provide a general analysis of all the phases involved in the planning and execution of plans of a hotel or restaurant. Emphasis will be placed on the preplanning stage of design development, blueprint information, installation factors, fire code regulations, environmental controls, and facility maintenance. Prerequisite: HOS 2000 or permission of instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.

3901. Practicum/(3).F;S;SS.
Approved work experience related to competencies in a program area of home economics education as required by the State Department of Public Instruction. Supervision and evaluation will be by employer and faculty member. Minimum of 200 work hours. Prerequisite: 20 s.h. home economics courses; 2.0 grade-point average overall. S/U.

4000. Textiles Merchandising: Apparel and Furnishings/(3).F.
A study of factors influencing the merchandising of textiles for apparel and furnishings. Emphasis on the market structure and major fabric resources for apparel and furnishings. Lecture three hours. Prerequisite: HEC 2000.

4002. Merchandise Display and Promotion/(3).S.
A study of promotion of merchandise through the use of displays and diversified media. Lecture two hours, laboratory two hours. Prerequisite: HEC 3003.

4003. Fashion Buying and Merchandising/(3).F.
The planning, buying and selling of fashion merchandise. Emphasis on knowledge and skills needed for effective decision making in fashion merchandising. Lecture three hours. Prerequisite: HEC 3003.

4100. Administration of Preschool Programs/(3).S.
A study of the role of preschool program administrations in development of interpersonal relationships among staff members, planning for parent involvement, assessing facility and equipment needs, determining adequate guidelines for financial management and funding, and studying legislation and regulations affecting preschool programs. Lecture two hours; laboratory two hours. Prerequisite: HEC 3101 or permission of instructor.

4200. Advanced Nutrition/(3).F.
The role of nutrients at the specialized cellula level. Emphasis on intermediary metabolism of carbohydrates, proteins and fats. Scientific planning of adequate dietaries for normal individuals of different economic levels as related to health and efficiency.

Lecture three hours. Prerequisites: HEC 3205, CHE 2201, 2202.

4202. Experimental Food Study/(3).F.
A study of the theories of food preparation, the effect of processing on food, the interrelationship of various aspects of food science to nutrition and the judgement of products and establishing of standards. Lecture one hour, laboratory four hours. Prerequisite: HEC 1202. Offered odd-numbered years.

4203. Diet in Disease/(3).S.
Study of nutrition in the treatment of disease. Changes in metabolism and relationship of changes to dietary requirements and food intake. Prerequisite: HEC 4200, CHE 4580, 4581. Lecture three hours.

4204. Community Nutrition/(3).S.
An introduction to nutrition needs of the community and nutrition services provided to the public through various agencies and organizations; techniques for determining nutrition needs and methods of extending services to various groups in the community and factors affecting acceptance of these services. Lecture three hours. Offered even numbered years.

4205. Seminar in Food Systems Management/(1).S.
A consideration of contemporary topics in food systems management via seminar format. Prerequisite: senior status.

4307. Home Furnishings Construction Techniques/(3).S.
Introductory knowledge and skill development related to custom-made home furnishings such as coverings, window treatments, upholstered goods, and wood refinishing. Basic use of the sewing machine is required. Students will furnish own materials for projects. Lecture one hour, laboratory four hours. Prerequisites: HEC 1300, 2000, or permission of instructor.

4310. Residential Interior Design/(3).F.
Exposure to and study of good design. Application of design principles and elements through composition and critiquing processes. Exploration of presentation, drafting and rendering techniques. Development of awareness of sociological, psychological and economic influences on design and market trends and resources. Instruction in career opportunities, business practices, professional conduct, and designer-client interaction. Lecture one hour, laboratory four hours. Prerequisites: HEC 1300, 2300, and 3300 or consent of instructor.

4315. Habitats and Public Policy/(3).S.
Historical and current politico-economic climates and their influences on the physiological, psychological and sociological aspects of housing. The interrelationships of the physical environment with people in urban, suburban, and rural housing situations. Current developments in housing with emphasis on private and federal programs. Lecture three hours. Prerequisite: junior standing.

4320. Contract Interior Design/(3).S.
Study of principles and procedures essential to the contract interior design profession. The analysis and solution of contract design problems with emphasis on logistics necessary for systemization and control of operations, money, materials, and commitments. Lecture one hour, laboratory four hours. Prerequisites: HEC 3300, 4310.

4350. Management Within the Home/(4).F;S.
A study of the theory and application of management principles with emphasis on experiences in the management of resources to realize individual and group goals. Prerequisites: HEC 1202, 2202, 2350, and 2600. Residency in Home Management House required (exception for married students residing locally with their spouse). Lecture one hour, laboratory six hours.

4400. Professional Seminar/(1).F;S.
Home economics in the professional world and continuing education job opportunities, interviews, and professional ethics. Development of credentials and portfolios. Lecture one hour. Should be completed before taking HEC 4900.

Senior/Graduate Courses

4540. Nutrition and Metabolism/(3).F.
The course is designed to provide basic knowledge in nutrition for non-nutrition majors, especially those entering the health professions. The topics included are: energy metabolism, weight loss, nutrition and physical performance, nutritional assessment, nutrition and emotion, factors affecting food selection and disease prevention. Permission of instructor required.

4551. Families in Later Life/(3).S.
In-depth study of factors influencing interrelationships in family development in the later years. Lecture three hours. Prerequisite: HEC 2103 or permission of instructor.

4609. Introduction to Vocational Education/(3).S.
Historical, legislative, and philosophical aspects of vocational education as related to the development and implementation of vocational education programs in secondary education. Introduction to the N.C. program of studies for vocational programs and entry level occupations in the program areas. Prerequisite: FDN 3800, CI 2800, and PSY 3301. Lecture three hours.

4701. Techniques and Materials/(3).S.
The selection development, and use of procedures and materials for instruction and guidance. Lecture one hour, laboratory four hours. Prerequisites: HEC 1202, 2350.

4709. Middle Grades Career Exploration/(3).On Demand.
A study of the newer conceptual and pragmatic models of middle grades career exploration. Development of competencies of teachers in relation to the development of models, integration of cluster concepts, occupational information, and resources which might be utilized in career exploration. Meets requirements for certification and certificate renewal credit for teachers involved in career education. Prerequisites: HEC 4609, CI 3131 or equivalent, or permission of instructor. Lecture two hours, laboratory two hours.

4710. Middle Grades Career Exploration Labs/(3).On Demand.
Study of the occupational clusters and the methods and techniques of teaching in each of the middle grades career exploration labs. Meets requirements for certification and certificate renewal credit for teachers involved in middle grades career education. Prerequisite: HEC 4609, CI 3131, HEC 4709, or equivalent, or permission of instructor. Lecture two hours, laboratory two hours.

4900. Internship/(6-12).F;S;SS.
In-the field experience or employment in the area of the student's interest: (a) clothing and textiles; (b) foods and nutrition; (c) child development; (d) housing and interiors; (e) home economics education. Supervision and evaluation by the employer and faculty member. Prerequisites:
A. 2.00 overall grade-point average
B. College rank: juniors (60 s.h.)
C. Completed 35 hours of home economics courses including HEC 4400 (except 24 hours for home economics education majors)
D. Internship proposal fully approved
E. Major courses completed:
1. clothing and textiles: HEC 1000, 2000, 2001, 3003; ECO 2030; MGT 3010; ACC 2100
2. child development: HEC 1100, 2101, 2103, 2201, 3101; PSY 2205, 3303
3. home economics education: 24 hours in home economics completed
4. housing and interiors: HEC 1300, 2000, 2300, 2350, 3300, 3310, and either 4310 or 4320
5. foods and nutrition: HEC 1202, 2202, 2203, 2204, 3202, 3204, 3205

Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Military Science (MS)

Claude E. Cooper, Chairperson

The Army ROTC program has been developed to give college men and women training and experience in the art of organizing, motivating, and leading others. This program includes instruction to develop self-discipline, physical stamina, and poise, qualities that are an important part of leadership and that contribute to success in any career.

The first two years of military training in the Reserve Officer Training Corps are strictly voluntary for any student who is a United States citizen. An individual taking these ROTC courses incurs absolutely no obligation to future military service. These two years comprise the basic course, which is normally completed during the freshman and sophomore years.

Students completing their sophomore year may attend the ROTC basic camp of sixweeks duration in lieu of completing the basic course. However, selection for attendance at this camp is competitive nationally.

The advanced course is offered on a voluntary basis during the junior and senior years to those cadets meeting the necessary qualifications. Upon successful completion of the

advanced course including the ROTC advanced camp, which is six weeks duration at Fort Bragg, North Carolina and usually taken between the junior and senior year, the cadet may be offered a commission as a second lieutenant in the U.S. Army, Army Reserves or National Guard. Outstanding students may be selected for direct appointment in the Regular Army.

A minor in military science consists of 19 semester hours including MS 3001, 3002, 3003, 4001, 4002, and three semester hours from a 3000 or 4000 level course in geography, history, political science, psychology, or sociology. A semester of student teaching or student internship may be substituted for the latter three hours.

Two-, three-, and four-year scholarships are offered by the Department of the Army. These scholarships pay the full cost of tuition, a flat rate fee for textbooks, lab fees and other educational expenses for the duration of the award. They also provide a subsistence allowance of $100 a month up to 10 months of each academic year for which the award is in effect, and pay for the students' first trip from home to the University. Participation in the Army ROTC scholarship program does not preclude the holding of other scholarships. More information may be obtained from the chairperson of the Department of Military Science.

Basic course requirements

A candidate for ROTC training must:

a. Be of good moral character.
b. Be a citizen of the United States.
c. Be able to graduate before 30 years of age.
d. Be physically able to participate in the program of instruction.
e. Meet other entrance requirements as determined by the department chairperson, current Army regulations, and University policies.

A student who does not meet all of the above requirements should consult with the Department of Military Science to determine if waivers can be granted.

A waiver of attendance of Military Science I, and/or Military Science II may be granted for previous ROTC training or military service upon application.

Texts and uniforms

Basic course students do not receive monetary allowances. Texts and uniforms are furnished by the government. Students will be required to reimburse the government for loss of uniform items or other equipment.

Advanced course requirements

A candidate must:

a. Have a minimum of two years remaining at the University.
b. Meet all other requirements for the basic course.
c. Meet medical requirements for advanced course.

d. Possess qualifications for becoming an effective Army officer.
e. Achieve a passing score on ROTC qualifying examination.
f. Have satisfactorily completed the basic course, received a waiver in lieu thereof, or have satisfactorily completed the basic camp, or have served as an enlisted person in the armed forces with an honorable discharge.
g. Have satisfactorily completed loyalty requirements.
h. Agree to enlist in the United States Army Reserve, accept a commission if offered, and serve three years on active duty if required.
i. Meet other requirements as determined by the department chairperson, current Army regulations, and University policies.

A student who does not meet all of the above requirements should consult with the Department of Military Science to determine whether waivers can be granted.

Texts and allowances

Each cadet enrolled in the advanced course receives subsistence pay at the rate of $100 per month up to $1,000 per academic year. Textbooks and uniforms are furnished to all cadets. They are paid a travel allowance to and from advanced camp. While at camp, cadets are paid approximately $700. The pay and allowances received while in the advanced course total approximately $2,700.

Courses of instruction in military science (MS)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1001-1002. Military Science I, Basic Course/(1-1). F;S;SS.
Basic military subjects with emphasis on US Army and ROTC organization, objectives of the Army, leadership and management, individual weapons and marksmanship, principles of war, evolution of weapons and tactics, rules of warfare.

Leadership Laboratory (2 hours) Consists of skill training and confidence building in subjects such as rappelling, stream crossing, assault boat training, aircraft orientation, military weapons firing, and night compass course, orienteering, and other selected subjects.

2001-2002. Military Science II, Basic Course/(2-2).F;S;SS.
Use of maps and compass for land navigation. First aid techniques; military written and oral communications; leadership principles and techniques; small unit tactical operations. Prerequisites: MS 1001-1002 or permission of department chairperson. Lecture two hours, laboratory two hours.

2003. ROTC Summer Camp, Basic Course/(5).SS.
Taken summer following sophomore year. Training conducted at designated US Army installation. This training provides cadets with practical experience in leadership and management and the subjects covered in Military Science I and Military Science II with the exception of American Military History the following school year. Prerequisite: completion of sophomore year of college.

2500. Independent Study/(1-4).F;S;SS.

3001-3002. Military Science III, Advanced Course/(3-3).F;S.
Leadership, military principles of instruction, small unit tactics, communication and pre-camp orientation. Prerequisite: successful completion of the basic course or its equivalent as approved by the professor of military science. Selection by the department. Lecture three hours, laboratory two hours.

3003. ROTC Summer Camp, Advanced Course/(4).SS.
Usually taken summer following junior year. Training conducted as designated US Army installation. This training provides cadets with practical experience in leadership, military teaching, weapons, qualifications, and communications. To receive credit, a student must register and pay a fee at the University. Prerequisites: successful completion of MS 3001-3002.

3004. US Military History/(3).F;S.
Survey of American military history from colonial period to present day defense issues. Study of the American attitude toward war, the European influence, civil-military relationships and the impact of technology on operations and tactics. May be taken by non-cadets for elective course credit without military obligations. No leadership laboratory required.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4). On Demand.

4001-4002. Military Science IV, Advanced Course/(3-3).F;S.
A study of the officer personnel management system, Army administration, military law, staff operations and procedures, logistics, personal affairs, service customs, and officer orientation. MS IV cadets normally serve as cadet officers in the cadet corps and are responsible for the leadership laboratory instruction. Prerequisite: MS 3001-3002 or permission of chairperson of military science. Lecture three hours, laboratory two hours.

Department of Technology (TEC)

Al Rapp, Acting Chairperson

The Department of Technology provides study programs of the technology of our industrial society. The curriculum consists of a series of courses which include learnings related to planning and design, manufacturing, servicing, communications, power, and construction. Through the pursuit of these areas, the student develops a high degree of skill in the performance of the processes involved in these areas. These experiences result in practices that are relevant to the learner and consistent with identifiable needs of an individual.

The technology curriculum includes those kinds of knowledge, experiences, and concepts which develop the learner's capacity to interpret and manage the technological society of the future rather than knowledge and experiences peculiar to a time or place. Technology, therefore, is predicated on the following:

1. The need to understand and manage the systems and products of technology.
2. The need to include motivational activity as an integral process of education.
3. The need to be an informed, productive, and involved citizen.
4. The need to have a positive sense of oneself, which relates to good mental health and personal well-being.

The Department of Technology offers the following degree programs:

Bachelor of Science degree with teacher certification in industrial education with concentrations in secondary education or trade and industrial education

Bachelor of Science degree without teacher certification in industrial technology

Minor in industrial technology on the undergraduate level

Master of Arts degree in industrial education with a concentration in secondary school teaching or community, junior and technical college teaching

Master of Arts degree in industrial technology

Minor in industrial technology on the graduate level

A Bachelor of Science degree (with teacher certification) in industrial education with a concentration in secondary education consists of 36 semester hours including: TEC 1017, 2108, 2708, 3057, 4609, 4619, 4629; nine semester hours of course work in one technology area; and six semester hours of technology electives. Required courses from other departments (not included in the 36 semester hour major) are: MAT 1020 or higher, and COM 1100. In addition, the student must select an academic concentration from one of the following: biology 24-27 s.h.; chemistry 24-28 s.h.; geography 24-27 s.h.; geology 25-27 s.h.; physics/astronomy 27 s.h.; psychology 24 s.h. For requirements for teacher certification, see the Department of Curriculum and Instruction.

A Bachelor of Science degree (with teacher certification) in industrial education with a concentration in trade and industry consists of 36 semester hours including: TEC 1001, 4609, 4619, 4629, 4639, 4900 (6-12 s.h.); nine semester hours from one of the following skill areas: drafting, electronics, graphic arts, industrial crafts, metals, woods; and 0-6 semester hours of industrial technology electives. Required courses from other departments (not included in the 36 semester hour major) are: MAT 1020 or higher, and COM 1100. In addition, the student must select an academic concentration from one of the following: biology 24-27 s.h.; chemistry 24-28 s.h.; geography 24-27 s.h.; geology 25-27 s.h.; physics/astronomy 27 s.h.; psychology 24 s.h. For requirements for teacher certification, see the Department of Curriculum and Instruction.

A Bachelor of Science degree in industrial technology (without teacher certification) with a concentration in general industrial technology consists of a minimum of 53-56 semester hours including: TEC 1001; 2011; 3029; 3039; 18 semester hours selected from TEC 1002, 1106, 2004, 2005, 2008, 2023, 2108; 12 semester hours in advanced courses from one technical area: 9-12 semester hours of TEC electives, which may include an internship. Required courses from other departments (not included in the minimum 53-56 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020 or higher, and COM 1100. A minor of 12-18 semester hours is required.

A Bachelor of Science degree in industrial technology with a concentration in manufacturing (without teacher certification) consists of 54-64 semester hours including: TEC 1001, 1106 or 2008, 2004, 2005, 2011, 2023, 2803, 3039, 3607, 3807, 4407, 4557; 8-12 semester hours of TEC electives; and 4900, an approved internship or TEC electives of 6-12 semester hours. Required courses from other departments (not included in the 54-64 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020 or higher, and COM 1100. A required minor of 12-18 semester hours is to be selected in consultation with an advisor.

A Bachelor of Science degree in industrial technology with a concentration in electronics (without teacher certification) consists of 48-60 semester hours including: TEC 1001, 2011, 2023, 3033, 3043, 4003, 4023, 4563, 4583; 18 semester hours of TEC electives; and 4900,

an approved internship (optional) of 6-12 semester hours. Required courses from other departments (not included in the 48-60 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020 or higher, and COM 1100. A required minor of 12-18 semester hours is to be selected in consultation with an advisor.

The Department of Technology, in conjunction with the Department of Communication, offers a B.S. degree (non teaching) in communications with a concentration in printing production management. The core requirements consist of 12 semester hours from the following: COM 2300, 2305; TEC 2803 and ART 1011.

The printing production management concentration consists of the above core of 12 semester hours and 43-47 semester hours of TEC courses including: TEC 1001, 1002, 1022, 2012, 3012, 3042, 3520, 3622, 4552, 4562, 4572, 4582, 4592 or 2022, 4622, and 4900, an "approved" internship of 8-12 semester hours. A minor in general business is required. Required courses from other departments (not included in the 43-47 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020 or higher, and COM 1100.

A minor in printing production management consists of 16 semester hours, the courses to be selected by the student in conference with the chairperson or designated advisor.

A minor in industrial technology consists of 16 semester hours, the courses to be selected by the student in conference with the chairperson or designated advisor.

The Department of Technology offers a Master of Arts degree in industrial education with concentrations in secondary school teaching and community, junior and technical college teaching. Also a Master of Arts degree is offered in industrial technology (without teacher certification). Persons interested in either of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of instruction in technology (TEC)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

1001. Technical Drafting I/(3).F;S;SS.
Fundamentals of technical drafting including: lettering, sketching, instrument techniques, views and orthographic projection, pictorial drawing, dimensions, sections, and plan analysis. Lecture two hours, laboratory two hours.

1002. Graphic Arts/(4).F;S;SS.
An exploration of basic areas of letter-press printing and photo-offset lithography. Auxiliary areas are the study of type styles, composition techniques, paper technology, printing mathematics, industrial photography, plate manufacture, copier technology and binding techniques. Lecture two hours, laboratory four hours.

1011. Technical Drafting II/(3).F;S.
Analysis of points, lines, and planes; auxiliary views; developments; intersections; precision dimensions; and working drawings. Lecture two hours, laboratory two hours. Prerequisite 1001 or permission of instructor.

1017. Communications Technology/(3).F.
An introduction to the study of communications technology through a variety of classroom presen-

tations, laboratory experiences, research, instructional media, and related instructional activities. This course will focus on the technology of graphic, media and electronic communication. Lecture two hours, laboratory two hours.

1022. Technical Photography I/(3).F;S;SS.
An introductory course in black and white photography which will cover technical information about cameras, films, printing, and processes. Lecture two hours, laboratory two hours.

1106. Introduction to Industrial Crafts/(3).F;S.
An introduction to the materials, processes and techniques used in the design and construction of industrial craft products. Units covered will include an overview of ceramic, leather and non-ferrous metal technology. Lecture two hours, laboratory two hours.

2001. Technical Illustration/(3).F;S;SS.
Techniques of pictorial illustration including: sketching; inking and shading; airbrush techniques; and finished illustrations. Lecture two hours, laboratory two hours. Prerequisite: TEC 1001 or 1011.

2004. Introduction to Metals Technology/(3).F;S.
Experience-centered exploration into the sub-fields of metals technology with emphasis given to both the unique and supportive roles the metals industry plays in the total industrial scheme. Specific areas to be covered are: the nature and characteristics of metals, designing metals for manufacturing and production, layout techniques, bench metals, sheetmetal fabrication, fastening techniques, foundry, forging and heat treating. Lecture one hour, laboratory four hours.

2005. Wood Technology/(4).F;S.
Introduction to woodworking with wood and the woods industry; care and use of basic woodworking tools and machines; processes and techniques involved in the planning, designing, jointing, shaping, and finishing of wood materials in the furniture industry. Lecture two hours, laboratory four hours.

2008. Plastics Technology/(3).S.
Introduction to materials and processes of the plastic industry. Laboratory experiences will include a variety of techniques and procedures utilizing these materials and processes. Lecture two hours, laboratory two hours.

2011. Introduction to Industrial Design/(3).F;S.
Processes and methods of design with emphasis on the designer's role in industry. Included are principles of design applied to planning, sketching, drawing and construction of projects and/or problems for all areas of industrial education and technology. Lecture two hours, laboratory two hours.

2012. Production Techniques in Graphic Arts/(3).S.
Theory and application of different production techniques in photo offset lithography and auxiliary areas. The course will operate in the same manner as a commercial print shop. Lecture one hour, laboratory four hours.

2022. Technical Photography II/(3).S.
A continuation of Technical Photography I that covers advanced black and white photographic processes and will cover control systems for exposure and development, the zone system, sensitometry, and lighting. Lecture two hours, laboratory two hours. Prerequisite: TEC 1022 or permission of instructor.

2023. Introduction to Electricity/Electronics/(4).F;S.
An introduction to electricity and electronics through applied AC and DC theory. Course content will include Ohm's Law, Kirchhoff's Laws, Power Laws, Network Theorems, discrete electronic components and schematic diagrams. Theory to be reinforced by practical laboratory experimentation emphasizing the use of the volt-ohmmeter and oscilloscope. Lecture two hours, laboratory four hours.

2042. Bookbinding/(2).F;S.
An exploration of the methods of construction of standard types of books, pamphlets, and magazines. Emphasis is on common practices and materials. Lecture one hour, laboratory two hours.

2106. Leather Technology/(3).F;S.
Exploratory experiences with leather materials that emphasize the application and forming processes for industrial and personal applications. Specific areas covered are: early beginnings, geographic sources, animal sources, preparing hides and skins, tanning processes, industrial products and processes, designing, cutting tools, carving, sewing, fastening and finishing. Lecture two hours, laboratory two hours.

2108. Introduction to Power and Energy Technology/(3).F;S.
An introduction to the study of sources, conversion, controlling, transmitting, and using power and energy. Emphasis will be placed on external, internal and electrical power and energy converters. Lecture two hours, laboratory two hours.

2116. Ceramic Technology/(3).F;S.
Exploratory experiences with ceramic materials that emphasize the application and forming processes for industrial use. Specific areas covered are: materials, construction, jiggering, slip casting, molding, tech. glazing, kilns, and firing tech. Lecture two hours, laboratory two hours.

2126. Nonferrous Metal Technology/(3).F.
Exploratory experiences with nonferrous metals that emphasize the application of materials and forming processes for industrial use. Specific areas offered are: Characteristics of nonferrous metals, alloying, forming techniques, fabrication techniques, casting, metal removal techniques, metal fusion techniques, metallic buildup, coloring, and finishing. Lecture two hours, laboratory two hours.

2188. Transportation Systems and Devices/(3).S.
A study of the history and development of transportation systems and devices and the impact of transportation technology on society. The student will explore the economics and efficiency of air, land, and water transportation. Lecture two hours, laboratory two hours.

2500. Independent Study/(1-4).F;S;SS.
Approved contract is required.

2708. Construction Technology/(3).F.
This course will provide students with an introduction to technical, economic and managerial aspects of the construction industry. Primary emphasis will be on the tools, materials, processes and contemporary trends in residential construction. Lecture one hour, laboratory four hours.

2803. Introduction to Industrial Applications of Computers/(3).F;S.
An introduction to industrial applications of mainframe and microcomputers; to include BASIC programming, an overview of machine codes, input/output devices, and common industrial applications such as computer-aided drafting (CAD)

3004. Welding/(3).S.
This course covers information about welding safety, equipment, materials, and applications of arc, oxy-acetylene, and inert gas techniques to include typical welding positions and welding ferrous and nonferrous metals. Lecture two hours, laboratory four hours.

3012. Screen Process Printing/(3).F;S.
An exploration of screen process printing techniques and methods on different materials through various media including hand-cut to photographic stencils and plates. Lecture one hour, laboratory four hours.

3021. Architectural Standards and Procedures/(3).F;S.
Introduction to and application of information resources in architectural planning and procedures. Lecture one hour, laboratory four hours. Prerequisite: TEC 2001, or permission of instructor.

3022. Color Photography/(3).F.
An introductory course in color photography which will cover technical information about color theory, films, printing, and processes. Lecture two hours, laboratory two hours. Prerequisite: TEC 1022 or permission of instructor.

3025. Advanced Wood Technology/(4).F;S.
Advanced machine tool operations, furniture construction, and a study of general materials used in the furniture industry. Lecture two hours, laboratory four hours. Prerequisite: TEC 2005.

3029. Society and Technology/(3).S.
The effects of technology upon human beings. Aids in developing a degree of technological literacy and understanding of our complex society. Lecture three hours.

3033. Active Circuits/(3).F;S.
An introduction to solid state electronics including diodes, bi-polar transistors, and junction field effect transistors. Circuit theory to include power supplies, amplifier circuits, oscillator circuits, and switching circuits. Theory to be reinforced through practical laboratory experimentation. Lecture two hours, laboratory two hours. Prerequisite: TEC 2023 or equivalent.

3039. Materials/(3).S.
The structure, characteristics, testing, and application of typical industrial materials. This course also includes the examination of strength of materials as it applies to manufacturing and production techniques. Lecture two hours, laboratory two hours.

3042. Cold Type Composition/(3).F;S;SS.
The study of composing equipment, materials, and processes used in the printing and publishing industry. The course includes hand, mechanical and photocomposition techniques as well as desktop publishing. Lecture two hours, laboratory two hours.

3043. Integrated Circuits/(3).S.
An introduction to metal oxide semiconductor theory and integrated circuits, including optoelectronic devices and members of the Thyristor family. The course will include theory and application for analog integrated circuits, the MOSFTE, UJT, PUT, SCS, SCR, Diac, and Triac. Theory to be reinforced through practical design and laboratory experimentation. Lecture two hours, laboratory two hours. Prerequisite: TEC 3033 or equivalent.

3053. Electronic Troubleshooting Techniques/(3).F;S.
This course introduces the student to the concepts of electronic troubleshooting with applied experience in the university electronic repair facility. Laboratory

four hours, lecture one hour. Prerequisite: TEC 2023 and 3033.

3054. Metals Technology/(3).F of odd years.
An indepth, experience-centered examination of metal processing techniques. This course concentrates on advanced machine and non-machine metal manufacturing techniques. Emphasis will be placed on individual problem solving. Lecture one hour, laboratory three hours. Prerequisite: TEC 2004.

3057. Manufacturing Technology/(3).S.
An introduction to the principles, practices and functions of manufacturing technology in today's global marketplace. Emphasis will be placed on the application of manufacturing management principles in product ideation activities. Topics to be studied are product research and development, manufacturing enterprise organization, production strategies, production methods and techniques, and production facilities/systems. Lecture two hours, laboratory two hours.

3408. Alternative Energy Systems/(3).F.
This course will examine a variety of energy conversion systems. Advantages and disadvantages of the technical, economic, and environmental aspects of each system will be discussed. Water, wind, solar, photovoltaics, energy conservation and bio-fuels will be the primary focus of attention. Students will learn to measure these resources, compute the potential energy output and will gain an awareness of the various technical options available for collecting, converting, storing and controlling these renewable energy resources. Lecture two hours, laboratory two hours.

3418. Solar Design/(3).S.
This course is designed to provide students with an understanding of the basic principles and contemporary uses of solar energy, including: photovoltaics, and domestic water and space heating systems. Various design tools will be used to determine heating requirements, potential solar gain, proper solar/conservation mix and proper levels of thermal mass for residential and light commercial buildings. Lecture three hours.

3500. Independent Study/(1-4).F;S;SS.
Approved contract is required.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract is required.

3530-3549. Selected Topics/(1-4).On Demand.

3607. Machine Systems and Controls/(3).F.
A study of mechanical systems and controls used in industry today. Basic mechanical, electrical, hydraulic, and pneumatic systems and their components will be included in the classroom activities. Lecture two hours, laboratory two hours. Prerequisite: TEC 2004, 2005 and 2023.

3622. Junior Graphic Arts Seminar/(1).F;S.
This course involves the development of the mechanics of being a professional in the graphic arts field. Primary topics to be covered are the resume, cover letters, interviewing, presentation procedures, tracking and forms, and report writing. Timely concerns of the industry will be secondary topics. Prerequisite: junior standing.

3781. Machine Drafting/(3).S.
Applying competencies acquired in the technical drawing program to the specifics of machine drafting. Learning to deal with the materials and processes of machine drafting. Lecture two hours, laboratory two hours. Prerequisite: TEC 1001 or 1011.

3807. Industrial Maintenance and Safety/(3).S.
The study and application of maintenance and safety procedures that relate to manufacturing. Classroom/laboratory problems will include units on state and national safety regulations pertaining to manufacturing, preventive-emergency problems that include: shafts, bearings, belts and pulleys, sharpening and grinding, electrical and mechanical problems. Lecture two hours, laboratory two hours. Prerequisites: TEC 2004 and 2005.

4001. Fundamentals of Computer-Aided Drafting and Design/(3).F;S.
This course focuses on the implementation of commercial computer-aided drafting and design (CADD) systems in a variety of engineering and technical applications. The components, commands, and methods of the CADD systems, and hardware and software requirements and evaluation will be covered. Lecture two hours, laboratory two hours. Prerequisites: an introductory computer course and a technical drafting course, or permission of the instructor.

4003. Linear Systems/(3).F.
The course will revolve around linear integrated circuits including voltage regulators, voltage reference, voltage comparators, timers, operational amplifiers, industrial applications, automotive applications, and consumer products applications. Theory to be reinforced by laboratory construction of circuits utilizing linear IC'S. Lecture two hours, laboratory two hours. Prerequisite: TEC 3033 or equivalent.

4021. Residential Drafting/(3).S.
A professional approach to preparing client centered review drawings for approval and sales purposes. Lecture one hour, laboratory four hours. Prerequisite: TEC 3021.

4023. Digital Systems/(3).S.
An introduction to combinational and sequential digital logic with an emphasis on TTL and CMOS integrated circuits. The course will include gates, flip-flops, multiplexers, encoders, decoders, shift registers, counters, arithmetic logic units, memory units, and an introduction to microprocessors. Circuit simplification by Boolean algebra and Karnaugh mapping. Theory to be reinforced by practical design and laboratory experimentation. Prerequisite: TEC 3033 or equivalent.

4407. Production Planning and Control/(3).F.
An applied study of process planning and production control systems used in modern manufacturing. To include such topies as: production planning, automation, time and motion study, order control, flow control and quality control, and plant layout. Lecture two hours, laboratory two hours. Prerequisite: TEC 2011 and 3607, or permission of the instructor.

Senior/Graduate Courses

4551. Computer-Aided Graphical Displays/(3).F;S.
Introduction to the underlying concepts, mathematics and generalization techniques for two and three dimensional graphics with the microcomputers. Lecture two hours. laboratory two hours. Prerequisites: TEC 1001, 2803 or equivalent.

4552. Printing Estimating/(2).F.
The study of the many facets of a printing estimator including estimating paper, ink, artwork, copy preparation, copyfitting, composition, photocopy, image assembly, platemaking, presswork, binding and finishing. Also included is the marketing analysis of the pricing procedure and production standards. Lecture two hours.

4553. Research in Modern Electronics/(2).F;S;SS.
Individual problems in modern electronics to be determined by need, experience, and interest. Lecture one hour, laboratory two hours. Prerequisite: TEC 3033.

4555. Contemporary Industrial Finishing/(2).On Demand.
Care and maintenance of finishing equipment; selection and use of spray equipment; preparation of the surface to be finished, staining and filling undercoating, top coating, oil finishes, application of simple and synthetic finishes. Lecture one hour, laboratory two hours. Prerequisite: TEC 2005.

4557. Manufacturing Production Techniques/(3).S.
The design, development, and mass production of a manufactured product. To include market survey, design selection, prototype construction, development of jibs and fixtures, implementation of process planning and control systems, and the actual production of a product. Lecture one hour, laboratory four hours. Prerequisite: TEC 4407 or permission of the instructor.

4560. Problems and Processes of Industrial Arts and Technical Education/(1-2).F;S;SS.
Individual research on problems determined by the student's need.

4562. Paper and Printing Substrates/(2).S.
This course is designed to provide the student with an understanding of how printing substrates are produced, the many different types and for what purpose they have been designed. Lecture two hours.

4563. Computer Programming and Instrumentation/(3).F.
A study of computer application and programming concepts utilizing the BASIC and PASCAL languages. Elementary skills in user-written programs will be developed as well as an understanding of the use and application for manufacturer supplied software. Lecture two hours, laboratory two hours. Prerequisite: TEC 4023 or equivalent.

4564. Introduction to Metallurgy/(3).F of even years.
Study of ferrous and non-ferrous metals and their alloys, physical characteristics, phase diagrams, relation of properties to micro-structure. Lecture three hours, laboratory arranged.

4565. Applied Furniture Design and Construction/(4).S.
The study of traditional and contemporary furniture, and its importance, design, and construction procedures. The student may design and construct a piece of traditional or contemporary furniture. Lecture two hours, laboratory four hours. Prerequisite: TEC 3025.

4572. Printing Production Management/(3).S.
Practical management techniques and experience in the areas of sales, finance and high, middle, and lower level personnel management in an active printing production facility. This course will be taught concurrently with TEC 2012 Production Techniques in Graphic Arts. Lecture one hour, laboratory four hours. Prerequisite: TEC 2012.

4576. Production Techniques in Industrial Crafts/(3).F.
An analysis of functional design and production methods used in industrial crafts. Individual projects designed to employ various technical and mechanical methods of production to leather, ceramic, metals and combination of these craft materials. Lecture two hours, laboratory two hours. Prerequisites: TEC 2106, 2116, 2126 or permission of instructor.

4582. Industrial Photo-Lithography/(3).F;S;SS.
Advanced studies in cold-type composition (both photographic and mechanical) and offset press operation. A major emphasis is the area of industrial photography up to four color separation and printing; auxiliary areas are the use of test equipment for negatives, plates, and the technology of paper and its uses in the industrial scheme. Lecture one hour, laboratory four hours. Prerequisite: TEC 1002.

4583. Microprocessor Technology/(3).S.
A detailed study of the architecture of the microprocessor and microcomputer. The course will include computation, machine representation of information, storage structure, buses, input/output, interfacing, peripheral devices, and instruction sets. Theory to be reinforced by hands on experience. Lecture two hours, laboratory two hours. Prerequisite: TEC 4023 or equivalent.

4592. Advanced Screen Process Printing/(3).F;S;SS.
Advanced laboratory practice in transfer and direct photographic screen printing with emphasis on multicolor printing, cylinder printing and finishing techniques. Lecture one hour, laboratory four hours. Prerequisite: TEC 3012.

4596. Design and Material Development for Industrial Crafts/(3).F.
An analysis of the development processing, and finishing techniques used for ceramics, leather, and non-metal materials. Emphasis is on exploratory problems and the application of these materials to the design of industrial craft products. Lecture two hours, laboratory two hours. Prerequisites: TEC 2106, 2116, 2126 or permission of the instructor.

4601. Advanced Technical Illustration/(3).F;S.
In-depth exploration in technical illustration and modeling as performed with Advanced CADD software. Units will include: layout and construction methods, perspective, and finished illustration techniques appropriate to CADD. Lecture two hours, laboratory two hours. Prerequisite: TEC 4001 or permission of the instructor.

4609. Introduction to Vocational and Industrial Education/(3).F.
Vocational and industrial education in the modern school and how they affect general education. Historical and legal impacts and development. Organization for effectiveness in public education. Lecture three hours.

4611. Product Design/(3).S.
The design and development phases in producing manufactured products. Problem identification, preliminary ideation, design refinement, drafting standards and communication will be included for all units. Units include: feasibility studies, material and processes, anthropometric data, engineering psychology, model testing and analysis, decision processes and economics. Prerequisite: TEC 2011 or permission of instructor. Lecture two hours, laboratory two hours.

4619. Curriculum Development in Vocational and Industrial Education/(3).S.
Procedures for identifying and developing curricular materials for vocational and industrial education. Techniques of revising existing curriculum to satisfy current or emerging technology. Sources and resources used in developing valid curriculum. Lecture three hours.

4622. Senior Graphic Arts Seminar/(1).F;S.
This course is concerned with the development of a supervisory and/or management style through discussions, presentations and reports. Topics to be covered are professional ethics, promoting employee loyalty and commitment, reducing turnover, absenteeism, tardiness, hiring, firing, handling conflict, supervising and influencing people, and other problems of supervisors and managers. Other topics will be timely concerns of the graphic arts industry. Prerequisite: TEC 3622.

4628. Solar Energy Technology/(3).F.
This course is designed to provide students with an opportunity to apply the basic principles and concepts of using the sun's energy. Students will develop skills in the use of tools, materials, and processes which effectively and efficiently capture and use the sun's energy. Contemporary trends in Energy management/conservation and solar technology will be discussed. Lecture one hours, laboratory four hours. Prerequisites: TEC 3418 or permission of the instructor.

4629. Safety and Management in Vocational and Industrial Education/(3).F;SS.
Industrial management, safety and maintenance and their effect on vocational and industrial education. Organization for effective and safe maintenance of an occupational laboratory within the confines of

OSHA and local regulatory mandates. Lecture three hours.

4638. Contemporary Problems in Appropriate Technology/(3).S.
This course is designed to provide students with an overview of contemporary problems facing the Appropriate Technology movement such as affordable and efficient alternative energy systems, small scale production systems, waste management and recycling, bioregional development, community and shelter design and technology transfer methodology. Each student will have the opportunity to explore in-depth a problem of their choosing and will be given guidance in the identification, definition and analysis of their chosen problem. Both library research and prototype or model construction will be required. Lecture three hours. Prerequisite: TEC 3408 or permission of the instructor.

4639. Vocational and Industrial Student Organization/(3).S.
Vocational student club organization and management. Leadership training through student organization. Lecture three hours.

4649. Cooperative Vocational and Industrial Education/(3).S;SS.
Organization and administration of a cooperative program for vocational or interdisciplinary areas. Included are locating and maintaining training stations and developing training plans. Lecture three hours.

4652. Studio Photography/(3).F.
An introductory course to studio photography that covers studio lighting and large format cameras for industrial/product and portrait photography. Lecture two hours, laboratory two hours. Prerequisites: TEC 1022 and 2022 or 3022, or permission of instructor.

4900. Internship/(3-12).F;S;SS.
Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Theatre and Dance (TD)

Susan S. Cole, Acting Chairperson

The Department of Theatre and Dance trains students who wish to teach theatre and prepares others for graduate school or for professional or recreational careers in theatre. Students who minor in dance may do so in combination with other performance studies such as theatre or music or may pursue an avocational interest in dance.

The department supports production programs in both theatre and dance and sponsors the Appalachian Dance Ensemble, the Appalachian Young People's Theatre, and the University Theatre which produces plays in two theatres and on tour including full length plays, dinner theatre, one acts and literature in performance. The department actively supports student theatre organizations related to theatre such as Playcrafters and Alpha Psi Omega, national dramatics honor society.

The Bachelor of Arts degree in theatre arts consists of 40 semester hours above the 1000 level. This must include four hours selected from TD 2101, 2102, 2103, 2104 and 2105 and three of these must be in different production activities—2101, 2102, 2103 or 2104. Also required are: TD 2211, 2216, 2220, 2225, 2230, 2240, 2600, 2605, 2620, 3630, 3730, 3735; and a minimum of eight semester hours from other theatre courses above the 2000 level which must include TD 4101. In addition, students are required to take TD 2712; and PE 1026 or 1028 or 1030 as general education requirements. A minor of 12-18 semester hours is required and six semester hours of a second year foreign language or higher.

The Bachelor of Science degree in speech teaching with a concentration in theatre arts (K-12) consists of 59 semester hours above the 1000 level. This must include four hours selected from TD 2101, 2102, 2103, 2104 and 2105 and three of these must be in different production activities-2101, 2102, 2103 or 2104. Also required are: TD 2211, 2216, 2220, 2225, 2230, 2240, 2600, 2605, 2620, 3615, 3620, 3630, 3720, 3730, 3735, 3820, 3856, 4230, 4320, 4330, 4356; and COM 3320. In addition, students are required to take TD 2712, 3610; and PE 1026 or 1028 or 1030 as general education requirements. For the requirements in teacher education, see the Department of Curriculum and Instruction.

A minor in theatre arts consists of 18 semester hours including TD 2012, 2216, 2620 and nine semester hours to be taken through consultation with and approval of the chairperson.

A minor in dance consists of 19 semester hours including TD 1400 or 2400; 1410 or 2410; 1420; PE 2001; TD/PE 3073; TD 3420, 3430 and 3440. In addition, it is suggested that students take PE 1026 as a general education requirement.

Students majoring in theatre and dance must make a minimum grade of "C" (2.0) in each TD course required.

Courses of instruction in theatre and dance

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index.)

THEATRE (TD)

2011. Introduction to Theatre/(3).F;S;SS.
A nontechnical course for students with little or no theatrical background. A survey of all phases of theatre.

2012. Great Ages of the Theatre/(3).F;S;SS.
An introduction to the historical development of the art of theatre as a reflection of the society from which it evolved. The significant theatrical innovations in each major period will be emphasized.

2101. Production Activity: Costume Studio/(0-1). F;S;SS.
Production activity is available to all students. Specific jobs and hours will be arranged with the instructor. May be repeated for credit. A maximum of four hours in TD activities (2101-2105) will apply toward graduation.

2102. Production Activity: Scenic Studio/(0-1). F;S;SS.
Production activity is available to all students. Specific jobs and hours will be arranged with the instructor. May be repeated for credit. A maximum of four hours in TD activities (2101-2105) will apply toward graduation.

2103. Production Activity: Theatrical Lighting/ (0-1).F;S;SS.
Production activity is available to all students. Specific jobs and hours will be arranged with the instructor. May be repeated for credit. A maximum of four hours in TD activities (2101-2105) will apply toward graduation.

2104. Production Activity: Stage Management/ (0-1).F;S;SS.
Production activity is available to all students. Specific jobs and hours will be arranged with the instructor. May be repeated for credit. A maximum of four hours in TD activities (2101-2105) will apply toward graduation.

2105. Performance Activity: Theatre and Dance/ (0-1).F;S;SS.
Performance activity is available to all students by audition for a major theatre production or dance ensemble. May be repeated for credit. A maximum of four hours in TD activities (2101-2105) will apply toward graduation.

2211. Theatrical Concepts/(3).S.
Procedures and techniques of play analysis for the development of production concepts appropriate to all areas of theatrical production.

2216. Introduction to Theatrical Design/(3).F.
An introduction to theatrical production as a collaborative art including an exploration of the common bases for the various areas of theatrical design and methods of graphic communication used by the designers.

2220. Production Techniques: Costume/(3).F.
An introduction to the theory and practice of the theatrical costume including construction techniques, organization and maintenance. Also included will be patterning, dyeing, costume research and costume history. Students will participate in costume studio activities. Two hours lecture, two hours laboratory. Prerequisite: TD 2216 or permission of instructor.

2225. Production Techniques: Makeup/(1).S.
A practical guide to the theory of theatrical makeup. Students will become familiar with the traditional and color theory approaches to makeup. Various conceptual and technical problems will be studied and solved. Students will be expected to execute makeup designs for productions to be assigned. Two hours laboratory.

2230. Production Techniques: Scenery and Properties/(3).F.
Introduction to the techniques used to design and execute stage scenery and properties including equipment, facilities, basic design techniques and documentation. Students will participate in scenic studio activities.

2240. Production Techniques: Lighting and Sound/(3).S.
An introduction to the techniques used to design and execute theatrical lighting and sound, including equipment, facilities, basic design techniques and documentation. Students will participate in production activities.

2303. Acting for Non-Theatre Majors/(2).F;S.
A basic course in the fundamentals of acting for the stage. Emphasis is on expansion of the individual's awareness and use of relaxation, concentration, body, voice, and imagination through theatre games and improvisation. One hour lecture, two hours lab. (Same as COM 2303.)

2309. Scenic Technology for Broadcasters/(3).F;S.
A course designed to introduce broadcasting students to basic scenic and lighting techniques used in the television studio. (Same as COM 2309.)

2500. Independent Study/(1-4).F;S;SS.

2600. Performance Techniques: Voice for the Stage/(2).S.
A core course for the beginning theatre student that concentrates on establishing good vocal habits through practical application of various vocal techniques. Phonation, respiration, articulation, phrasing, textual analysis, and dialects will be studied to establish the effective use of the voice for the stage.

2605. Performance Techniques: Movement for the Stage/(2).F.
A core course for the beginning theatre student concentrating on control of working space, physical technique and ensemble movement. Coursework will include an introduction to mime and stage combat techniques. One hour lecture and two hours laboratory.

2610. Oral Interpretation/(3).F;S.
An introduction to the study of literature through the medium of performance. The student is expected to master techniques of literary selection and analysis and to perform from poetry, prose and dramatic literature.

2620. Acting I: Fundamentals/(3).F.
Fundamental study of script analysis applied to performance through monologue and scene study for the purpose of developing a character. Course work will include improvisational techniques, audition techniques and developing rehearsal and performance attitudes and habits. Six hours laboratory. Prerequisites: TD 2600 and 2605.

2712. Survey of Dramatic Literature/(3).S.
A survey of representative works of dramatic literature from the classical Greek through the present. Emphasis on the language of drama, critical theory and background as well as on play reading and analysis.

3225. Advanced Stage Makeup/(1).S.
Advanced techniques in stage makeup for a variety of productions. Techniques to be covered include scars, stage blood, foam latex masks, three dimensional techniques, prosthetics and other special makeup effects. Two hours laboratory. Offered in even numbered years. Prerequisite: TD 2225 or permission of instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-4).On Demand.
A program involving advanced study, a research or creative project, and writing. Adapted to serve students who have exceptional interests. The proposals for this work must be approved by the instructor and the chairperson of the department prior to registration.

3610. Performance of Literature/(3).F.
An advanced course in the study of literature through performance for theatre majors, minors or the student with a strong background in performance. Following intensive work in literary analysis and performance techniques, the student will present a term-project one-person show based on a famous literary figure.

3615. Group Performance of Literature/(3).S.
An introduction to the study of literature through group performance with emphasis on readers theatre and chamber theatre. Class work will include selection and adaptation techniques, use of focus, and imaginative staging of nondramatic literature. A term project in directing is required. Prerequisite: TD 2610 or 3610 or permission of instructor.

3620. Acting II: Characterization/(3).S.
The practical study of different schools of realistic acting as they relate to the analysis of the playscript for the development of character relationships on the stage. Emphasis is on scene study through improvisational techniques and textual analysis. Six hours laboratory. Prerequisite: TD 2620.

3630. Theatre Directing Techniques I/(3).F.
Basic directing techniques including script analysis, production planning, blocking and working with the actor. Practical applications of the principles of directing. Prerequisites: TD 2216 and 2620.

3656. Theatre Performance and Production for Young Audiences/(3).S.
Techniques and theories of producing plays for young audiences. Methods of producing theatre using children, youth and adults will be explored with an emphasis on the particular expectations of productions in a variety of organizational settings. Students will apply techniques learned in touring production to area schools. This course is designed for students majoring in theatre, education and recreation. Prerequisite: TD 2620 or 2303 or permission of the instructor. May be repeated one time for credit.

3720. Playwriting/(2).S.
A practical course in writing for the stage which also introduces some basic techniques in dramatic criticism and writing screen plays. Emphasis is on completing a final project which is of sufficient quality to merit production. Offered in alternate years.

3730. Classical Theatre History/(3).F.
Study of theatre architecture, production techniques, and dramatic literature from primitive ritual to the end of the 17th Century. Offered in odd numbered years.

3735. Modern Theatre History/(3).F.
Study of theatre architecture, production techniques, and dramatic literature during the eighteenth, nineteenth and twentieth centuries. Offered in even numbered years.

3820. Theatre Management/(2).S.
The theory and practice of business management, promotion and publicity, ticket sales and box office management as applied to theatre. Offered in even numbered years.

3856. Creative Drama/(3).F.
A study in the background and basic techniques of creative drama. The course aids the potential K-12 teacher in using drama as a creative teaching tool. There will be practical experience in incorporating creative drama into the elementary classroom and using drama activities to build basic skills in human development.

3900. Internship/(3-12).F;S;SS.
Graded on S/U basis.

4101. Senior Project/(0-3).F;S;SS.
Research or creative project for seniors who are seeking the B.A. degree in theatre arts. The project must have the approval of the theatre and dance faculty prior to registration for the course.

4230. Scenic Design/(3).S.
A study of the theory and processes used for the design of theatrical settings for a variety of productions. Prerequisites: TD 2216 and 2230.

4235. Problems in Design and Production/(3).On Demand.
The study of advanced design and production problems in a variety of production forms and styles. Prerequisite: permission of instructor.

4302. Broadcast Performance Techniques/(3).S.
A study and application of specific performance techniques (i.e., voice, body, manuscript usage, personality) related to the broadcast industry. Students will experience a variety of radio and television performance and announcing situations directed towards improving their broadcasting performance skills. Prerequisites: COM 2102 and 3316. (Same as COM 4302.)

4320. Acting III: Styles/(3).S.
An intense study of period styles in the area of performance from Greek to the present day. Emphasis

is on scene work that explores and builds expressive vocal and physical control of the character for different periods of theatre. The acting will concentrate on projected believability and ensemble performance for a variety of theatre spaces. Six hours laboratory. Prerequisite: TD 3620.

4330. Theatre Directing Techniques II/(2).S.
Advanced directing techniques including interpretation, composition and picturization. Practical application of directing principles through the production of a one-act or full length play. Prerequisite: TD 3630.

4356. Advanced Creative Drama/(3).S.
Advanced study of methods for teaching creative drama. Research and exploration of current approaches in the creative drama field. Practical application of these methods in the elementary classroom. Prerequisite: TD 3856.

DANCE (TD)

1400. Modern Dance I/(2).F;S.
An introduction to modern dance as an art form with the beginning practice of movement technique. Emphasis will be on the discovery of skills to develop the articulation and expressiveness of the body. The course will be an introduction to the medium of modern dance through the concepts of time, space, force and direction. Historical perspectives as well as aesthetic values will be covered. May be repeated one time for credit.

1410. Beginning Ballet I/(2).F;S.
A beginning study of the art of classical ballet with emphasis on basic vocabulary, alignment, classical historical traditions and basic combinations of movement. May be repeated one time for credit.

1420. Jazz I/(2).F;S.
A study of beginning jazz technique with one emphasis on rhythmic awareness, style and cultural traditions. May be repeated one time for credit. Prerequisite: TD 1400 or 1410.

2014. Dance Appreciation/(3).F;S.
A survey of the study of dance as an art form, including historical and aesthetic perspectives. The course will explore basic elements of dance as well as dance in relation to other art forms. The course will be primarily lecture and will include demonstrations, films and some experiential work.

2400. Modern Dance II/(2).F;S.
A second level study of modern technique and basic elements of dance with more emphasis given to the refinement of skills and aesthetic elements. May be repeated one time for credit. Prerequisite: TD 1400 or permission of instructor.

2410. Ballet II/(2).F;S.
Second year study of the art of classical ballet technique with increased emphasis on facilitating skill in allegro and adagio work. May be repeated one time for credit. Prerequisite: TD 1410 or permission of instructor.

3073. Dance/(2).F;S.
Two hours lecture, one hour laboratory. (Same as PE 3073.)

3420. Dance Composition and Improvisation/(3).F.
A beginning study of dance composition including the elements of time, space and design. Guided explorations in improvisation will be given as tools for developing personal movement vocabulary and expanding choreographic possibilities. Emphasis will be placed on learning to look at dances and appraise their choreographic structure critically and objectively. The course will culminate with a solo choreographic work. Prerequisite: TD 1400 or above.

3430. Dance History/(3).S.
The study of the history of dance from the earliest times to the present. The course will focus on dance in relation to other art forms as well as on the cultural, aesthetic and philosophical influences on dance.

3440. Applied Dance/(2).S.
Application of learned techniques to dance performance. Recital. Two hours lecture, one hour laboratory.

4420. Choreography/(3).F.
The course will focus on the increased awareness of design, dynamics, rhythm and motivation. Special attention will be given to design elements for small groups. There will be continued work in the observation, analysis and appraisal of dances. The class will culminate in a duet or trio choreographic work. Prerequisite: TD 3420.

The School of Music (MUS)

Arthur E. Unsworth, Dean
William G. Harbinson, Assistant Dean

The School of Music is a full member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The School of Music sees as its objectives the development of those elements which relate to the teaching, creation, business, and appreciation of music. The teaching objective is partially realized through those curricula leading to state certification in either general music education or instrumental music education, through the community, junior and technical college teaching; general music education; performance; and pedagogy concentrations offered by the department, and through the undergraduate curricula designed to accommodate those who desire to be private studio teachers or church musicians. The creative objective is satisfied by any of the performance programs along with those opportunities which are available for prospective composers. The business objective relates to those who desire to combine music with the numerous aspects of the music business. The school also makes every effort to fulfill its role as the prime purveyor of music for the University by presenting numerous performances by soloists and ensembles along with music courses of a general nature which may be of interest to the non-musician.

Admission requirements

The School of Music offers the Bachelor of Science, Bachelor of Music, and the Master of Music degrees. In cooperation with the College of Education, it offers the Bachelor of Music in music education.

To be admitted to the School of Music as a candidate for a baccalaureate degree, a student must have:

1. Completed at least 28 semester hours.
2. A grade-point average of at least 2.00, which must be maintained.
3. Completed ENG 1000 and 1100.
4. Been accepted by the Dean of the School of Music as a major.
5. Students moving from the General College to the degree granting school must see the dean or assistant dean of the School of Music for the purpose of being assigned a faculty advisor.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the chairperson of the Department of Curriculum and Instruction.

Advisement

The School of Music considers student advisement one of its most important responsibilities and priorities. Through the dean's office, each student is assigned a faculty advisor who is committed to offering accurate and appropriate advisement. The student is encouraged to make regular appointments with the advisor. The School of Music pro-

vides a graduation check for all majors during the semester immediately preceding the student's last semester. We urge all students in our college to avail themselves of this service. Meeting graduation requirements is the student's responsibility.

Independent study

Students intending to pursue independent study in the School of Music are reminded of the existence of deadline dates for applying for independent study. For information and details pertaining to independent study procedures established by the school, contact the dean or assistant dean of the School of Music.

Pass-fail

Students majoring in programs in the School of Music are not permitted to take any course on the pass/fail option that is a general education, major, minor, or professional requirement.

Bachelor of Music degree

In order for a student to earn the Bachelor of Music degree in the School of Music, the following requirements must be met.

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of a major in one of the following fields:
   music education
   music performance:
      composition/theory
      sacred music
      instrument or voice
4. A student must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

   Specific requirements for each major preface the list of courses offered by the School of Music.
5. Completion of a 39 semester hour block in education (music education majors only).
6. Completion of electives to total 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning the settlement of all expense accounts.
9. Recommendation of the faculty.

Bachelor of Science degree

In order for a student to earn the Bachelor of Science degree in the School of Music, the following requirements must be met.

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00.

A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.

2. Completion of general education requirements.
3. Completion of a major in the following field:
   music industry studies

   A student must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

   Specific requirements for each major preface the list of courses offered by the School of Music.
4. Completion of a minor consisting of 18 semester hours. Transfer students must complete at least four semester hours in their minor at Appalachian.

   Specific requirements for each minor preface the list of courses offered by the School of Music.
5. Completion of electives to total 122 semester hours.
6. Completion of the residency requirements.
7. Compliance with regulations concerning the settlement of all expense accounts.
8. Recommendation of the faculty.

Opportunities are available for students to become involved in internships associated with the School of Music. These internships provide students with on-the-job experiences in many areas of endeavor and allow them to earn academic credit which is applicable toward their degree. Students interested in pursuing this valuable educational opportunity should contact either their advisor or the student internship office. Consult the catalog statement which describes the student internship program.

Entrance requirements for freshmen

Applied music: an audition in the principal or major performing area is required of all incoming students. Should the appropriate performance level not be met, those students who are deficient will be required to do remedial applied music until the proper level has been attained.

Entrance requirements for graduate students

As appropriate to their individual program choice, all entering graduate music majors will demonstrate by examination their understanding and achievement levels in music theory, music history and literature, applied performance, conducting and score reading, performance and music education where it applies. Any deficiency noted may require courses or individual study in the area of the deficiency prior to admission to candidacy for the degree.

Degrees

The School of Music offers the Bachelor of Science, Bachelor of Music and Master of Music degrees. In addition to the general education requirements of the University the following music courses are required for the various curricula.

The Bachelor of Music degree in music education with a concentration in general music education (K-12) and/or instrumental music education (K-12) consists of a minimum of 63-65 semester hours of music in the following areas: music history and theory, 24 semester hours (MUS 1001-1002-1007-1008, 2001-2002-2007-2008, 3001, 2611-2612, 3611-3612); applied principal 14 semester hours; ensembles seven semester hours; MUS 3020, 3035, 3036, and specific requirements as follows (piano principals: MUS 1037-1038, 2030, 2037-2038, 3022, 3032, 3040, 4031-4032) (voice principals: MUS 1040-1041, 1045-1046, 2030, 2040-2041, 3022, 3032, 4031-4032) (string principals: MUS 1028, 1030 or 1031, 1032, 1035, 1037, 1040-1041, 2040-2041, 3021, 3033) (other instrumental principals: MUS 1028, 1029, 1030 or 1031, 1032, 1035-1036, 1037, 1040-1041, 2040-2041, 3021, 3031). (MUS 1001-1002-1007-1008 and 2001-2002-2007-2008 require a minimum grade of C-.)

All students enrolled in teacher education programs are required to meet certification-criteria as set by the North Carolina State Department of Public Instruction prior to their graduation from Appalachian State University. For requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Music degree in performance is offered in the following concentrations:

Sacred music. A minimum of 75 semester hours of music courses in the following areas: music history and theory, 24 semester hours (MUS 1001-1002-1007-1008, 2001-2002-2007-2008, 3001, 2611-2612, 3611-3612); applied principal 16 semester hours; ensembles eight semester hours; other music courses as follows: (MUS 1040-1041, 2040-2041, 4035 vocal majors only); (MUS 1037-1038, 2037-2038, 3004 organ and piano majors only); MUS 1045-1046, 2004, 4031-4032, 3020-3022, 3035-3036, 4004 and a minimum of two semester hours of MUS 2900. (MUS 1001-1002-1007-1008 and 2001-2002-2007-2008 require a minimum grade of C-.)

Composition and theory. A minimum of 76 semester hours of music in the following areas: music theory, 22 semester hours (MUS 1001-1002-1007-1008, 2001-2002-2007-2008, 3001, six semester hours of selected topics MUS 3530); applied principal 16 semester hours; composition 12 semester hours; a minimum of four semester hours must be taken in secondary applied and/or methods (MUS 1040-1041, 2040-2041 or piano proficiency); ensembles eight semester hours; music history and literature eight semester hours (MUS 2611-2612, 3611-3612); and MUS 3020, 3021 or 3022, and three semester hours music elective. Senior recital, half will be in applied principal and half will be in composition. Required courses from other departments (not included in the 76 hour major) are PHY 1105 and ART 2013. (MUS 1001-1002-1007-1008 and 2001-2002-2007-2008 require a minimum grade of C-.)

Voice. A minimum of 62 semester hours of music in the following areas: music history and theory, 24 semester hours (MUS 1001-1002-1007-1008, 2001-2002-2007-2008, 3001, 2611-2612, 3611-3612); applied principal 16 semester hours; ensembles eight semester hours; MUS 1040-1041, 1045-1046, 2040-2041, 3020, 3631, 3632, and 4035. Required courses from other departments (not included in the 62 hour major) are GER 1010-1020 and FRE 1010-1020. (MUS 1001-1002-1007-1008 and 2001-2002-2007-2008 require a minimum grade of C-.)

Instrument. A minimum of 71-76 semester hours of music in the following areas: music history and theory, 24 semester hours (MUS 1001-1002-1007-1008, 2001-2002-2007-2008, 3001, 2611-2612, 3611-3612); applied principal 32 semester hours; ensembles eight to twelve semester hours; MUS 1040-1041 (not required of piano majors), 3020, 3021 (not required of piano majors), 3621 (piano majors only), and 4035.

B.S. degree in music industry studies

The Bachelor of Science degree in music industry studies requires a minimum of 53-57 semester hours in music from the following areas: music history and theory, 12 semester hours (MUS 1001-1002, 1007-1008, 4 semester hours of music literature electives); 4 semester hours in one applied music concentration and the achievement of Level 1; 7 semester hours of performance ensembles; 3 semester hours of music methods courses selected from MUS 1028 or 1029, 1030 or 1031, 1032, and 1035 or 1036; and the following courses MUS 1040-1041 or 1042-1043, 1410, 1420, 1424, 3420, 2400 or 2401, 2424, and 4900 (minimum of 8 semester hours). In addition, 6 semester hours in psychology and communication are required (PSY 3351 or 4671, and COM 3152). A minor in marketing is required (18 semester hours; see marketing minor in the General Bulletin).

The School of Music offers two degrees under the Master of Music degree: the Master of Music degree with concentrations in community, junior and technical college teaching and general music education; and the Master of Music with a concentration in performance (vocal or instrument). Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Applied music

Applied music majors and principals are required to take a jury examination before the faculty in their applied area at the end of each semester. The jury functions as an advisory group as far as the applied music grade is concerned. Students will also be evaluated as to the level they have attained at the end of each semester. The level of achievement required in order to complete an applied music major or principal in the various areas is as follows:

Music industry studies	Level I
Music education	Level IV
Performance	
sacred music	Level IV
composition and theory	Level IV
vocal or instrumental	Level VIII

All music majors except those in the industry curriculum will further demonstrate satisfactory proficiency in their major or principal performing medium by presenting, during the senior year, either an individual recital or a joint program with no more than three participants. Additionally, students pursuing the sacred music, vocal, or instrumental performance degree are required to present a recital during the junior year.

Students presenting recitals which are used to fulfill departmental requirements must be students of applied music faculty members in the School of Music at Appalachian State University at the time of the recital.

Piano proficiency

All music education majors must satisfy piano proficiency requirements before student teaching.

Recitals and concerts

The School of Music presents a large and varied number of solo and ensemble programs through the year. Other programs are regularly brought in to the University through the Artist and Lecture Series. Students are required to attend fifteen recitals per semester. All music majors are required to register for and successfully complete MUS 1500 (Performance Seminar) for each semester in which they are enrolled as a major.

Ensembles

Music majors are required to be enrolled in and successfully complete either for credit or non-credit an appropriate ensemble each semester in which they are full-time students. No music major will be allowed to participate in more than three ensembles in any semester in which they are full-time students. No music major will be allowed to participate in more than three ensembles for non-credit or for which they are not enrolled.

Minor in music

The minor in music consists of 16 semester hours above the general education requirements: MUS 1001, Music Theory I (2 s.h.); MUS 1007, Aural Skills I (2 s.h.); ensembles, 4 semester hours maximum; applied music, 4 semester hours minimum and completion of Level I; electives in music, 4 semester hours approved by the dean of the School of Music; MUS 1500, Performance Seminar (0 s.h.) two semesters. (MUS 2011, 2012, 2013, 2014 not to be counted toward the minor but are recommended for general education requirements in humanities.)

Courses of instruction in music (MUS)

It should be noted that the indication of a course being offered in summer school (SS) is tentative. Students are advised to check with the appropriate chairperson regarding a specific course being offered.
(For a description of the course abbreviations used in the following list of courses, see the index for abbreviations.)

Applied Music (Secondary) 1301-1399; 2301-2399; 3301-3399; 4301-4399; 6301-6399/(1-1). F;S;SS.
One 30-minute individual lesson and six practice hours per week. Additional fee.

Applied Music (major-principal) 0401-0499; 1401-1499; 2401-2499; 3401-3499; 4401-4499; 6401-6499/(2-4).F;S;SS.
Two 30-minute individual lessons or equivalent in individual and/or class lessons and six practice hours per week for each semester hour credit. Additional fee.

1000. Elements of Music Theory/(3).S.
Designed for students below the freshman level theory and carries elementary education and music minor credit but no credit toward music major programs. Lecture and demonstration five hours.

1001. Music Theory I/(2).F.
A course in the fundamentals of music integrating basic materials and skills. The study of diatonic harmony is approached through partwriting and analysis. Lecture and demonstration two hours.

1002. Music Theory II/(2).S.
A continuation of Music Theory I, completing the study of diatonic harmony and introducing chromatic harmony. Analysis, partwriting and other written skills are integrated. Lecture and demonstration two hours. Prerequisite: MUS 1001 and 1007 with a minimum grade of "C-" (1.7) in each course.

1007. Aural Skills I/(2).F.
A course for the development of fundamental aural skills. The study of music fundamentals is approached through sightsinging and eartraining. Aural skills are developed through computer-assisted instruction. Lecture and demonstration three hours.

1008. Aural Skills II/(2).F.
A continuation of Aural Skills I. Sightsinging and eartraining of rhythmic patterns, diatonic melody and diatonic harmonic progression. Aural skills are developed through computer-assisted instruction. Lecture and demonstration three hours. Prerequisites: MUS 1001 and 1007 with a minimum grade of "C-" (1.7) in each course.

1028. Brass Class I: Trumpet and French Horn/(1).F;S.
Group instruction in the fundamental principles of trumpet and French horn technique. Lecture and demonstration two hours.

1029. Brass Class II: Trombone, Euphonium and Tuba/(1).F;S.
Group instruction in the fundamental principles of trombone, euphonium and tuba. Lecture and demonstration two hours.

1030. High Strings Class/(1).F;S.
A presentation of the fundamental principles involved in playing and teaching high stringed orchestral instruments (i.e., violin and viola). Lecture and demonstration two hours. Corequisite or prerequisite: MUS 1001.

1031. Low Strings Class/(1).F;S.
A presentation of the fundamental principles involved in playing and teaching low stringed orchestral instruments (i.e., violoncello and double bass). Lecture and demonstration two hours. Corequisite or prerequisite: MUS 1001.

1032. Percussion Class/(1).F;S.
Group instruction in the fundamental principles of performance on the standard percussion instruments. Lecture and demonstration two hours.

1035. Woodwind Class I: Clarinet and Saxophone/(1).F;S.
Group instruction in the fundamental principles of clarinet and saxophone technique. Lecture and demonstration two hours.

1036. Woodwind Class II: Flute, Oboe and Bassoon/(1).F;S.
Group instruction in the fundamental principles of flute, oboe and bassoon technique. Lecture and demonstration two hours.

1037. Voice Class/(1).F;S.
A presentation of the fundamentals of singing for teaching and performance. Lecture and demonstration two hours.

1038. Voice Class II/(1).S.
A continuation of materials covered in Music 1037 but with more emphasis on individual problems. Lecture and demonstration two hours. Prerequisite: MUS 1037.

1040. Piano Class I/(1).F.
Group instruction in the fundamental principles of piano technique. Lecture and demonstration two hours.

1041. Piano Class II/(1).S.
Group instruction in piano technique. Lecture and demonstration two hours. Prerequisite: MUS 1040.

1042. Guitar Class I/(1).F;S.
Group instruction in the fundamental principles of playing the guitar. A special rental fee of $13.50 is charged each semester for the use of the guitar. Lecture and demonstration two hours.

1043. Guitar Class II/(1).S.
Group instruction in intermediate level guitar. A special rental fee of $13.50 is charged each semester for the use of the guitar. Lecture and demonstration two hours. Prerequisite: MUS 1042 or equivalent background.

1045. Diction I(1).S.
The application of the International Phonetic Alphabet to the principles and practice of Italian, Latin and English pronunciation as applied to vocal music with regard to performance and teaching. Lecture one hour, laboratory one hour.

1046. Diction II/(1).F.
The application of the International Phonetic Alphabet to the principles and practice of French and German pronunciation as applied to vocal music with regard to performance and teaching. Prerequisite: MUS 1045 or instructor approval. Lecture one hour, laboratory one hour.

1410. Introduction to Instrument Repair: Wind Instruments or Strings/(2).F.
The use of proper equipment and the development of those skills necessary for the solution of basic problems in instrument repair. Lecture two hours, laboratory two hours.

1420. Introduction to Music Industry Studies/(3).F.
Lectures and discussions with faculty and representatives from the music industry to familiarize students with the scope of commercial music and the various fields available. Included will be an emphasis, through lecture, review of current literature and product demonstration, on the rapidly developing use of electronics in music. Lecture three hours.

1424. Music Production and Recording/(3).F.
Lecture, demonstrations, and hands-on experience with the operation of a recording studio. Technical procedures, production, and marketing techniques will be included in the course of study. Enrollment is limited to 12 students. Lecture and demonstration two hours, laboratory two hours. Prerequisite: MUS 1420.

1425. Arts Management and Promotion/(3).F.
Lectures, demonstrations, and projects in management and promotion of artists, organizations, and special arts events. Topic areas will include advertising, contractural procedures, utilization of news media, personnel management, and travel-touring arrangements. Lecture and demonstration three hours. Prerequisite for music majors: MUS 1420.

1500. Performance Seminar/(0).F;S.
A series of seminars in solo and ensemble recitals and concerts covering all aspects and problems of public appearances. Required of all music majors. Graded on S/U basis. Laboratory one hour.

2001. Music Theory III/(2).F.
A continuation of Music Theory II, completing the study of chromatic harmony and including the study of twentieth century harmonic practice. Lecture and demonstration two hours. Prerequisites: MUS 1002 and 1008 with a minimum grade of "C-" (1.7) in each course.

2002. Music Theory IV/(2).S.
A continuation of Music Theory III. Counterpoint, contrapuntal forms, instrumentation and elementary orchestration are studied. Lecture and demonstration two hours. Prerequisites: MUS 2001 and 2007 with a minimum grade of "C-" (1.7) in each course.

2003. Fundamentals of Composition/(2). On Demand.
Provides writing experience in the important musical forms. Prerequisite: MUS 1002. Lecture and demonstration two hours.

2004. Liturgies and Hymnody/(3).F.
A study of the history of worship in the Jewish, Eastern Orthodox, Roman Catholic, and Protestant traditions. Included will be a study of the hymn as it is used in the church's worship. Alternate years. Lecture three hours.

2007. Aural Skills III/(1).F.
A continuation of Aural Skills II, completing the development of sightsinging and eartraining skills involving diatonic melody, diatonic harmonic progression, and rhythmic patterns. Aural skills are developed through computer-assisted instruction. Lecture and demonstration two hours. Prerequisites: MUS 1002 and 1008 with a minimum grade of "C-" (1.7) in each course.

2008. Aural Skills IV/(1).S.
A continuation of Aural Skills III, completing the development of sightsinging and eartraining skills involving chromatic melody, chromatic harmonic progression and advanced rhythmic patterns. Advanced sightsinging skills are developed. Aural skills are developed through computer-assisted instruction. Lecture and demonstration two hours. Prerequisites: MUS 2001 and 2007 with a minimum grade of "C-" (1.7) in each course.

2011. Introduction to Music/(3).F;S;SS.
A nontechnical course for students with little or no musical background. Emphasis is placed on the style and form of music as perceived by the listener. (Humanities) Lecture three hours.

2012. Humanities: Music, Art and Ideas I/(3).F.
A course which concentrates on the interplay of art, music, philosophy and religion in the ancient through medieval cultures and their influences as manifested in other centuries.

2013. Humanities: Music, Art and Ideas II/(3).S.
A course which concentrates on the interplay of art, music, philosophy and religion in contemporary culture.

2014. Jazz Music in American Society/(3).F;S;SS.
Jazz may be the United States' only original contribution to music. Due to its comparatively recent

emergence as a recognized art form, a great deal of confusion exists as to the meaning, origins, development, and the place of jazz relative to other areas of music. This course will define jazz as precisely as possible and show its evolution in the historical background of the United States. Lecture three hours.

2020. Creative Music for the Classroom Teacher (Humanities)/(3).F;S.
Designed for the student who plans to become a classroom teacher in the elementary school. It involves an integrated approach to developing functional musicianship through listening, reading and writing musical notation, analyzing and creating music. The emphasis is on understanding music and being able to make use of this knowledge in the classrooms. Lecture three hours.

2021. Music Methods for the Classroom Teacher/(2).F;S.
The music elements learned in MUS 2020 will be used in studying materials and methods in the elementary classroom. A variety of musical activities will be presented which are suitable for all ages of elementary children. Prerequisite: MUS 2020. Lecture one hour, laboratory two hours.

2030. Instrumental Playing Techniques (for general music education majors)/(1).S.
Group instruction in the fundamental principles of playing on representative orchestral instruments in each of the following categories: woodwind, brass, percussion and string. Lecture and demonstration two hours.

2037. Advanced Voice Class I/(1).F.
A continuation of first year voice class with appropriate vocal literature adapted to each student's needs and progress. Lecture and demonstration two hours. Prerequisite: MUS 1038.

2038. Advanced Voice Class II/(1).S.
Continued study of literature and attention to the specific needs of each student. Lecture and demonstration two hours. Prerequisite: MUS 2037.

2040. Advanced Piano Class I/(1).F.
Group instruction in piano technique. Lecture and demonstration two hours. Prerequisite: MUS 1041.

2041. Advanced Piano Class II/(1).S.
Group instruction in piano technique. Lecture and demonstration two hours. Prerequisite: MUS 2040.

2400. History and Construction of Wind and Percussion Instruments/(3).F.
A comprehensive course dealing with the development of these instruments and their effect upon music performance. Emphasis will be placed upon design techniques, materials used, and manufacturing procedures. Lecture three hours.

2401. History and Construction of String and Keyboard Instruments/(3).S.
This course will have the same structure as MUS 2400, but will be concerned with string and keyboard instruments. Lecture three hours.

2410. Production Technique in Instrument Repair/(2).F;S.
Adaptation to professional tools and techniques in repair of musical instruments. Prerequisite: MUS 1410. Lecture one hour, laboratory four hours.

2424. Recording Engineering and Production/(3).S.
An intermediate course in operational techniques for the recording studio, including (1) studio operations and maintenance skills, (2) familiarity with modern multi-track equipment and (3) application of acoustics and psychoacoustics.

2500. Independent Study/(1-4).F;S;SS.

2611. Music History and Literature I/(2).F.
The history of music from the ancient Greeks through the 17th century will be studied. Examples from the music literature of the thirteenth through the seventeenth centuries (Renaissance and early Baroque) will be analyzed in detail. Prerequisite: MUS 1002. Lecture and demonstration three hours.

2612. Music History and Literature II/(2).S.
The music of the late Baroque (including Bach and Handel) and of the classic era (including Beethoven) will be studied. Selected examples will be used for detailed analysis. Prerequisite: MUS 1002. Lecture and demonstration three hours.

2900. Internship/(0-2).F;SS.
Subject areas include:

Church Music Field Work I and II/(0-1). On Demand.
The student will be responsible for all or part of a music program in an organized local church. Periodic visits to the church will be made by the professor who will attend rehearsals or services, and evaluate the student's work. Private or group conferences will be held with the professor, who will give guidance to the student. Graded on S/U basis.

Apprenticeship in Instrument Repair/(2).F;S.
Students will participate as apprentices in the routine operation of a manufacturing or repair facility. Prerequisite: MUS 2410. Graded on S/U basis.

3001. Form and Analysis/(2).S.
A detailed study of formal structure in music. Students are required to apply their skills and knowledge to comprehend (aurally and visually) musical structure in compositions of the common practice period. Lecture and demonstration three hours. Prerequisite: MUS 2002 with a minimum grade of "C-" (1.7).

3004. Organ Literature and Service Playing/(3).F.
A survey of the main stream of organ literature from the 15th Century to the present. Laboratory experience in playing for services of worship including chant accompaniment, hymn playing, anthem accompaniment and simple improvisation. Lecture three hours.

3007. Counterpoint/(3).On Demand.
A comprehensive course in the fundamentals of 18th-19th Century counterpoint. Writing and analysis is stressed and required. Prerequisite: MUS 2002.

3020. Conducting/(1).F.
Fundamentals of conducting technique and introduction to score reading. Lecture and demonstration two hours. Prerequisite: MUS 1002 or permission of instructor.

3021. Instrumental Conducting Practicum/(2).S.
Supervised conducting experience with an instrumental ensemble. Score preparation and rehearsal techniques. Lecture and practicum three hours. A minimum of five hours of rehearsal observations. Prerequisites: MUS 1002, 3020.

3022. Choral Conducting Practicum/(2).S.
Supervised conducting experience with a choral ensemble. Score preparation and rehearsal techniques. Lecture and practicum three hours. A minimum of five hours of rehearsal observations. Prerequisites: MUS 1002, 3020.

3031. Band Techniques and Materials/(2).S.
A survey of the materials and methods in teaching bands. Prerequisite: PSY 3302. (Same as CI 3031.)

3032. Choral Techniques and Materials/(2).F.
A survey of the materials and methods in choral teaching. Prerequisite: PSY 3302. (Same as CI 3032.)

3033. Orchestral Techniques and Materials/(2).S.
A survey of materials and methods employed in teaching orchestras. Prerequisite: PSY 3302. Music Education (string) majors only. Alternate years. (Same as CI 3033.)

3035. Music in the Elementary School/(2).F.
Materials and methods in the field of music teaching in the elementary school. Music in the integrated program; emphasis on the creative phases and the development of musicianship; observation of teaching procedures with children. Designed for music majors. (Same as CI 3035.)

3036. Music in the Middle/Junior High School/(2).S.
A study of the organization and direction of the music program in the middle/junior high school. Materials for the changing voice, elementary theory, music appreciation, operettas and program building are surveyed. Designed for music majors. Prerequisite: MUS 3035 or CI 3035. (Same as CI 3036.)

3040. Class Piano/(1).S.
Provides the piano principal with those practical competencies which most directly relate to classroom musical activities such as improvisation, accompanying and related skills. Required of music education majors with a piano principal. Lecture and demonstration two hours.

3420. Music Industry Seminar/(3).S.
An advanced course for music industry majors. The course provides a catalytic experience, bridging academic preparation and practical industry experience. Course content will include literature survey, discussions with industry representatives and field observations. The course culminates with participation in the National Association of Music Merchants Music and Sound Expo, the national trade show for the music and sound products industry, which occurs annually in June in Chicago or Atlanta. Lecture and demonstration three hours.

3500. Independent Study in Music/(1-4).F;S;SS.

3510. Honors Independent Study in Music/(1-3).F;S;SS.
Special research or projects which the honors student in music will pursue in lieu of required courses in the music curriculum.

3520. Instructional Assistance/(1).F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-4).F;S.
Variable content which may be repeated for credit. Topics will include special areas of music theory, music literature, and music education.

3611. Music History and Literature III/(2).F.
A comprehensive study of the history and literature of music from Beethoven through Post-Romanticism. Prerequisite: MUS 1002. Lecture and demonstration three hours.

3612. Music History and Literature IV/(2).S.
A survey of the history and literature of the early 20th Century to the present. Prerequisite: MUS 1002. Lecture and demonstration three hours.

3621. Piano Literature/(3).S.
A survey of early keyboard literature from ca. 1600-1750 and piano literature from 1750 to the present. Alternate years. Lecture three hours.

3631. Survey of Song Literature/(2).S.
This course is designated to gain a historical perspective of the "mainstream" song literature from the classical period to the present day, and to gain insight into each composer's style through listening and research. Prerequisite: 4 s.h. selected from MUS 2611, 2612, 3611, and 3612. Voice majors only or permission of the instructor. This is a required course for performance majors in voice. Alternate years. Lecture two hours.

3632. Opera History and Literature/(2).F.
Operatic development and literature from the Baroque to the present day. Representative works will be studied visually and aurally. Prerequisite: 4 s.h. selected from MUS 2611, 2612, 3611 and 3612. Voice majors or the permission of the instructor. This is a required course for voice performance majors. Alternate years. Lecture two hours.

3660. Computers in Music/(3).On Demand.
An introduction course to basic computer programming and how it can be used in music. Included in the course will be a study of systems designs and the user-written and commercial software available for music. Lecture and laboratory three hours.

3661. Electronic Music/(3).On Demand.
A study of the principle concepts of sound generation and its reproduction utilizing a synthesizer. Included will be mixing, splicing, and the general use of magnetic tape recorders. Also the concept of digital sound will be explored utilizing a micro computer and a keyboard interface. Lecture and laboratory three hours.

4004. Organization and Philosophy of Church Music/(2).F.
Organizational principles of a comprehensive church music program, including a study of the philosophy of the art form of music as it relates to theological concepts. Alternate years. Lecture two hours.

4031. Choral Literature I/(2).F.
A survey of representative choral literature from the Renaissance through the Baroque with special emphasis upon materials suitable for secondary and college groups. Lecture two hours.

4032. Choral Literature II/(2).S.
A continuation of Choral Literature I covering the periods from the Classic through the Modern. Lecture two hours.

4035. Directed Study in Area Pedagogy/(3).F;S.
A survey of current philosophies, materials and techniques and their application to teaching situations in the student's area of specialization. Lecture three hours. Prerequisite: junior or senior standing or consent of the instructor. This course is required of sacred music voice majors and all performance majors.

Senior/Graduate Courses

4510. Honors Project in Music/(2-3).F;S.
Appropriate research for the senior honors students in music.

4610. Marching Band Techniques/(2).S.
A study of the fundamentals of marching, precision drill, formations and maneuvering; the planning of football shows and parades. Lecture two hours.

4611. American Music/(2).On Demand.
The development of American music from the Puritan psalm singers to contemporary jazz with particular attention given to those musical concepts and practices which are distinctly American. Lecture two hours.

4615. Concert Band Literature/(2).On Demand.
A study of the development of the wind band and its literature. Significant original compositions and transcriptions with emphasis on Twentieth Century works. Lecture two hours.

4618. Symphonic Literature/(2).On Demand.
A comprehensive study of the development of the symphony from the Mannheim School to the present through an analysis of selected works. Lecture two hours.

4630. Problems in Elementary School Music/(2).S.On Demand.
Music teaching in the primary and grammar grades; research and demonstrations of methods of teaching elementary school children. Lecture two hours.

4900. Internship in Music Merchandising/Technology/(8 or 12).F;S.
The internship will be performed off campus in the employ of a cooperating music sales, manufactur-

ing, or repair firm. Interns will receive compensation and will be responsible for certain duties in return. Cooperating firms will work closely with Appalachian faculty in training and evaluating the intern. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Performing Groups (MUS)

1100. Marching Band/(0-1).F.
The marching band works in cooperation with the athletic program during the fall semester. It appears in pep rallies, all home games, parades and at several away games. Membership is open to all students who play hand instruments. The band usually meets for several days prior to the opening of fall semester. All students interested in performing should write to the band director. Majorette tryouts are held in the spring prior to the fall term. Tuesday and Thursday two hours each day, one dress rehearsal before each game.

1101. Symphonic Band/(0-1).S.
The symphonic band is open to all students who have had experience playing band instruments. The groups plays standard literature and presents two concerts each year on campus. Rehearsal three hours.

1102. Wind Ensemble/(0-1).F;S.
Membership in the wind ensemble is limited to wind and percussion players who have attained the highest level of performing ability. This usually includes music majors, although non-majors can qualify. The group performs twice each year on campus and occasionally tours to schools in North Carolina and surrounding states. Rehearsal three hours.

1103. Brass Choir/(0-1).F;S.
The brass choir is limited in members to 25 and is augmented with a percussion section for various numbers. Rehearsal three hours.

1104. Jazz Ensemble/(0-1).F;S.
This group is open to all students by audition. Emphasis is placed on developing a variety of popular music styles. Concerts are given on the campus and occasionally at schools off campus. Rehearsal three hours.

1105. Appalachian Symphony Orchestra/ (0-1).F;S.
The orchestra is open to all students who have ability and experience in playing any orchestral instrument. Emphasis is placed on securing good ensemble as well as the technical, dynamic and interpretive demands of the composition performed. The orchestra appears in concert several times during the year. Rehearsals three hours with additional sectional rehearsals.

1106. Chamber Orchestra/(0-1).F;S.
The chamber orchestra is open to qualified students who have the ability and experience to perform music literature of the most select and demanding type. Due to the small size of the ensemble, each musician must be prepared to play solo passages. The group appears in concert each semester. Rehearsal three hours.

1107. Small Ensembles/(0-1).F;S.
Small ensembles of mixed instruments are open to all qualified students upon audition. Rehearsal two hours.

1108. University Singers/(0-1).F;S.
The singers accept students who read music and sing well. Auditions are open to all students. Emphasis is placed on fine choral literature of all periods, with particular emphasis given to the works of outstanding composers Rehearsal three hours.

1109. Appalachian Chorale/(0-1).F;S.
A large group of 200-300 which is open to all students and members of the community. A major oratorio is presented each semester. Rehearsal two hours on Monday evening.

1110. Treble Choir.(0-1).F;S.
This organization is open by audition to all students capable of and interested in singing literature for soprano and alto voices. Rehearsal three hours.

1111. ASU Glee Club/(0-1).F;S.
This organization is open to all students capable of and interested in singing literature for tenor, baritone and bass voices. Rehearsal three hours.

1112. Chamber Singers/(0-1).F;S.
A select group usually consisting of 16 voices which specializes in the preformance of chamber literature of all periods. Selection is based on audition. Rehearsal three hours.

1113. Opera Workshop/(0-1).F;S.
A select group of singers who design, plan and execute a musical production each semester. Rehearsal three hours.

1114. Piano Ensemble/(0-1).F;S.
Supervised study and performance of duo and four-hand piano literature. Rehearsal two hours.

1115. Accompanying/(0-1).F;S.
Supervised study of accompanying vocal and instrumental solos. Rehearsal three hours.

1116. Percussion Ensemble/(1).F;S.
The function of this ensemble is to introduce the student to the wide area of percussion ensemble literature and to give the student small ensemble experience in the principal area of performance. Rehearsal three hours.

1119. Flute Choir/(0-1).F;S.
Small ensemble for flutes. Permission of instructor. Rehearsal two hours.

1120. Trombone Choir/(0-1).F;S.
Small ensemble for trombones. Permission of instructor. Rehearsal two hours.

1121. Trumpet Choir/(0-1).F;S.
Small ensemble for trumpets. Permission of instructor. Rehearsal two hours.

1122. Woodwind Ensemble/(0-1).F;S.
Small ensemble for woodwinds. Permission of instructor. Rehearsal two hours.

1123. String Ensemble/(0-1).F;S.
Small ensemble for strings. Permission of instructor. Rehearsal two hours.

1124. Guitar Ensemble/(0-1).F;S.
Small ensemble for guitars. Permission of instructor. Rehearsal two hours.

1125. Pep Band/(0-1).F;S.
Small ensemble for winds and percussion. Performs at home basketball games. Permission of instructor.

1126. Community Band/(0-1).F;S;SS.
An instrumental ensemble of 50-60 players that is open to students, faculty, staff and members of the community. A concert is presented each semester. Rehearsal three hours.

Office of Summer Sessions

Summer sessions at Appalachian have experienced steady growth, not only in size, but also in depth of programs offered. Besides offering courses allowing undergraduates to work toward their degree requirements, the university schedules workshops, seminars, and standard courses for teachers and other professional persons to gain enrichment or to work toward advanced degrees.

Terms of varying lengths are offered to allow students to fit their summer studies into other summer plans. Summer sessions at Appalachian offer an alternative to the typical summer school.

Division of Continuing Education

Richard B. Parrott, Director

In cooperation with each of the colleges of the University, the Division of Continuing Education strives to provide educational experiences for those outside the confines of the University through field-based courses, conferences, and camp programs.

Although the Division of Continuing Education does not grant degrees, the offices within the Division of Continuing Education work closely with all academic departments and divisions of the university in order to better serve the various groups and populations calling upon the university for its services. The offices within the Division of Continuing Education are:

Admissions Partnership Program
The Broyhill Inn and Conference Center
The Office of Conferences and Institutes
Camp Broadstone
The Office of Extension Instruction

The Broyhill Inn and Conference Center

Appalachian's Broyhill Inn and Conference Center is located at an elevation of 3,535 feet at the top of the west campus. The center contains fifteen meeting rooms fully equipped with the latest in audio visual equipment. The rooms vary in size and can accommodate groups from 20 to 1,000. There are also two large exhibition areas and outdoor spaces that can be utilized for receptions and social functions. The center is a full service hotel with 83 sleeping rooms including expansive suites. Also provided is a lovely dining room and total banquet facilities. Program development specialists and conference coordinators are available to assist with conference program planning and implementation.

The center was created to respond to the needs of adult learners. The center is committed to the pursuit of academic excellence to meet the educational needs of adults by offering new, imaginative, and exciting programs in keeping with the goals and objectives of the University. The center has increased the University's capability to fulfill its responsibilities as a regional institution by hosting a variety of programs that are designed to enrich the lives of those who participate.

Office of Conferences and Institutes

Tony Gray, Director

The university encourages the use of its resources and facilities by groups that are interested in providing educational and/or recreational workshops, clinics, camps, retreats, conferences, seminars, and meetings. The Office of Conferences and Institutes is responsible for the development, coordination, promotion and management of non-credit continuing education programs. Programs are offered to individuals from 8 to 80 years of age, utilizing the resources of a diversified faculty and staff and the modern facilities, equipment, and accommodations at the Broyhill Inn and Conference Center, Camp Broadstone, and the main campus.

For information contact the director of The Office of Conferences and Institutes, University Hall, Appalachian State University, Boone, NC 28608. Phone (704) 262-3045.

Camp Broadstone. In an effort to encourage learning and appreciation of the natural world through discovery and participation in firsthand encounters, Appalachian State University provides the facilities and resources of Camp Broadstone to groups seeking outdoor learning experiences. The 53-acre camp is located in Valle Crucis alongside the Watauga River, only six miles from the main campus. The camp facilities provide year-round housing for 100 people (groups and family) and a multipurpose dining hall capable of feeding 150. During the summer months the camp operates a six-week residential enrichment program for gifted and talented children.

The University encourages the use of the camp by students, faculty, staff, community and civic groups, and constituents of the University's service region.

For information, contact the director of Camp Broadstone, Route 1, Box 447, Banner Elk, NC 28604. Phone (704) 963-4640 or 262-3045.

Office of Extension Instruction

J. Michael Ortiz, Director

The office serves as a liaison between the region served and all colleges, divisions, and departments of the university in delivering educational services in a field-based setting and in acting in consortial arrangements with other institutions or agencies in service-oriented projects.

These educational services are offered on an as-needed basis throughout Appalachian's service region. This service includes the delivery of courses/programs in an off-campus setting at a time and location which provides ease of access for non-traditional students interested in continuing their education.

Three basic delivery approaches are employed by Appalachian State University in providing these educational services:

1. The individual course delivery approach has traditionally been offered as a basic means of delivering graduate/undergraduate credit away from the Appalachian campus.
2. The cluster program is another means of delivering field-based course work. A cluster is a group of courses usually taken on a two-course-per-semester basis. A group of individuals with similar educational objectives will begin a cluster program as a group and continue through a complete degree program. Each cluster group is assigned an academic coordinator who serves as advisor to each student and is responsible for providing academic leadership to the cluster. All degree programs have a minimum requirement of nine semester hours of residency credit.
3. Non-credit programs and workshops can be offered to groups of individuals in Appalachian's service region.

The continuing education unit (CEU)

Appalachian State University awards the continuing education unit (CEU) of credit. One continuing education unit is defined as: 10 contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. Increasingly business, industry and professional associations, among others, are requiring their members to periodically return to school to maintain a high level of currency in their field. The CEU is a system designed to document this participation in non-credit courses. The Office of Extension Instruction secures and provides all of the information which is required by the North Carolina Department of Public Instruction for teachers seeking to utilize the CEU for certificate renewal credit. CEU records are maintained at the Office of Extension Instruction.

For further information, contact the director, Extension Instruction, Appalachian State University, Boone, NC 28608, or phone (704) 262-3113.

Admissions Partnership Program (APP)

J. Michael Ortiz, Director

APP, originally funded by the Carnegie Corporation of New York, offers selected students the opportunity of shortening the time required to complete a baccalaureate by one year. This is accomplished through a field-based program. The field-based program offers seniors in selected high schools the opportunity to earn up to 26 semester hours of college credit in general education while earning their high school diploma. The courses are taught by specially selected teachers who are supervised by Appalachian faculty.

The Cratis D. Williams Graduate School

Joyce V. Lawrence, Dean of Graduate Studies and Research
Gregory G. Reck, Assistant Dean for Research and Grants
Henry G. Schneider, Assistant Dean for Graduate Studies

Graduate study at Appalachian includes encouraging academic inquiry, providing opportunities and facilities for advanced study and research, developing or extending academic or professional specializations, and facilitating the acquisition of external funds for research, instruction, and service. Accordingly, the Cratis D. Williams Graduate School offers programs leading to the Master of Arts degree with educational certification for teachers and the Master of Arts and Master of Science degrees in many academic areas. In addition, there are programs leading to the Master of Business Administration, Master of Library Science, Master of Music, the Educational Specialist degree and the Certificate of Advanced Study, all of which are offered during the two semesters of the regular session and the summer session. Students may also attend courses scheduled for late afternoons, evenings, and Saturdays, or participate in field-based programs.

The Graduate School has general supervision of all graduate work carried out in the departments, schools, and colleges of the University. In addition, the Graduate School supports faculty and student research and facilitates and coordinates the acquisition of external grant funds for the university. The Graduate School consists of a graduate faculty represented by the dean, who is the administrative officer, and the graduate council. The dean reports to the vice-chancellor for Academic Affairs and is responsible for research and graduate studies.

Purpose

The specific purpose of the Graduate School is to seek to promote and encourage the intellectual and professional development of graduate students and faculty. Within the framework of higher education established by the State of North Carolina, the Graduate School accomplishes this purpose through the promotion and administration of quality programs of graduate education and through the support and facilitation of research and grant activities for the university community. The activities which support this purpose include the evaluation and approval of applicants for graduate study, the review of the qualifications of candidates for graduate degrees, the review of graduate curricula and programs, the review of graduate faculty credentials, and the administration of the assistantship/fellowship/ scholarship programs. The Graduate School serves as a major advocate for research by assisting faculty in the acquisition of external funding, by providing internal support for research and scholarship, and by insuring a visible profile for university research and grant activities.

Degree requirements

For information regarding graduate degree requirements, refer to the *Graduate Bulletin.*

The Register

The University of North Carolina

Sixteen Constituent Institutions

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JUDITH P. PULLEY, B.A., Ph.D.—Interim Vice President-Planning (for 90-91)
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L. FELIX JOYNER, A.B.—Vice President-Finance
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RICHARD H. ROBINSON, Jr., A.B., LL.B.—Assistant to the President

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Program Plan

Following is a four-year diagram for assisting students in developing a program plan. Consultation with an advisor in the major area is advised in preparation of the plan to determine in advance courses needed and the proper sequence for completion of them. Courses taken each semester will, of course, be dependent upon availability of the courses.

Freshman Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
Total Hours Completed____		Total Hours Completed____	

Sophomore Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
Total Hours Completed____		Total Hours Completed____	

Junior Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course_____	Credit Hours
Total Hours Completed____		Total Hours Completed____	

Senior Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
Total Hours Completed____		Total Hours Completed____	

Other

(Transfer credits, summer sessions, credit by examination, etc.)

Course	Credit Hours	Course	Credit Hours
		Total Hours Completed____	

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